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FOURTEENTH ANNUAL REPORT

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

FOR THE

Fiscal Year Ended March 31st
1963

EDMONTON:
PRINTED BY L. S. WALL, Queen's Printer
1963

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FOURTEENTH ANNUAL REPORT

OF THE

Department of
Mines and Minerals

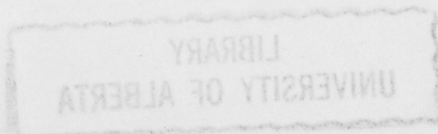
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FOURTEENTH ANNUAL REPORT

Department of
Mines and Minerals

PROVINCE OF ALBERTA

FOR THE

Fiscal Year Ended March 31st

1963

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To the Honourable J. Percy Page,

Lieutenant Governor of the Province of Alberta.

Sir:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1963.

I have the honour to be, Sir,

Your obedient servant,

A. R. PATRICK,

Minister of Mines and Minerals.

Edmonton, November 5, 1963.

CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS

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E. D. Barnard	Superintendent of Records	

FOURTEENTH ANNUAL REPORT
CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS
MARCH 31st, 1963

Hon. A. Russell Patrick.....*Minister*
H. H. Somerville.....*Deputy Minister*
G. W. Acorn.....*Solicitor*
L. B. Speelman.....*Statistician*
W. E. Shillabeer.....*Administrative Accountant and
Personnel Officer*

MINERALS DIVISION

J. W. Patrick.....*Director*
R. A. Seaton.....*Assistant Director*
D. R. Jordan.....*Supervisor of Revenue*
W. H. Roy.....*Supervisor of Reservations, Permits
and Licences*
D. F. Morrison.....*Supervisor of Leases and Mining
Recorder, Edmonton District*
D. C. MacMillan.....*Mining Recorder, Calgary District*

MINERAL TAX DIVISION

J. A. Savage.....*Superintendent*
I. M. Harrington.....*Assistant Superintendent*
W. McGechie.....*Chief Assessor*

MINES DIVISION

J. A. Dutton.....*Director*
J. D. B. Brown.....*Assistant Director*

PIPE LINE DIVISION

A. L. Berry.....*Superintendent*
G. W. B. Bullymore.....*Assistant Superintendent*

TECHNICAL DIVISION

J. M. Novak.....*Superintendent*
E. G. Staniforth.....*Assistant Superintendent*
E. D. Barnard.....*Supervisor of Records*

FOURTEENTH ANNUAL REPORT

of the

Department of Mines and Minerals

HONOURABLE A. R. PATRICK,
Minister of Mines and Minerals,
Edmonton, Alberta.

Sir:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ended March 31, 1963.

The production of crude oil in Alberta continued to rise during 1962, totalling an all time high at the end of the year. Natural gas production showed a more marked increase at the end of 1962 over the previous year.

At the end of 1962 there were 65 gas processing plants in operation in the Province. A major construction project was being completed in the Windfall area near Whitecourt.

Reserves of petroleum and natural gas rose slightly due primarily to extension of existing fields. One significant development was the discovery of the Snipe Lake field.

A commercial operation of the oil sands at a rate not to exceed 11,500,000 barrels of synthetic crude oil in any year was approved by the Oil and Gas Conservation Board for Great Canadian Oil Sands Limited. The royalties have been fixed for a period until April 1, 1972. On the first 900,000 barrels, or any part thereof produced in a month, the royalty is 8%. On production exceeding 900,000 barrels in a month, the royalty is 20% of the number of barrels produced in excess of 900,000. The royalty rate may be reconsidered on April 1, 1972, the date on which Crown royalties on crude oil from wells may also be reconsidered.

This royalty is reasonably similar to the royalty on crude oil from wells which commences at a minimum of 8% and escalates at 20% until the maximum of 16 $\frac{2}{3}$ % is reached. The royalty on all other products recovered by Great Canadian Oil Sands Limited is 16 $\frac{2}{3}$ % being the same as the royalty on products recovered from natural gas.

In the initial stages of the sands development, it is proposed to restrict production to some five per cent of the total demand for Alberta oil. As market growth enables the conventional oil wells to produce at a greater proportion of their productive capacity, then increments in the sands production may be permitted as recommended by the Oil and Gas Conser-

vation Board on a scale, and so timed, as to retain incentive for the continued growth of the conventional industry.

At the last Session of the Legislature The Surface Reclamation Act was passed and came into force on the first day of June, 1963. The Act contemplates that a reasonable standard throughout the Province should be required for the conditioning, maintenance and reclamation of the surface of lands used for wells, mines, quarries and pipe lines, even though the operator and the surface owner between themselves may have agreed to a lesser standard.

There will be no interference with the terms and conditions of private agreements with the exception that maintenance of the surface during the period of use of the land and reclamation of the surface at termination of the operations must meet the reasonable standard.

The four agencies formerly charged with regulating surface cleanup have been relieved of this responsibility. These agencies were

1. Mines Division for mines and quarries,
2. Oil and Gas Conservation Board for oil and gas wells,
3. Right of Entry Arbitration Board in its orders for mines, quarries, wells and pipe lines,
4. Public Utilities Board in its orders for pipe lines.

The Act authorized the establishment of a Surface Reclamation Council which consists of members appointed by the council of the county or municipality and by the Minister of Municipal Affairs in the case of an improvement district or special area. These local members may act within the municipal jurisdiction for which they are appointed. Other members of the council are appointed by the Lieutenant Governor in Council and are called Government members.

Amendments to the Oil and Gas Conservation Act included the prescribing of definitions for crude oil and natural gas derivatives. A further amendment dealt with the method of filing a copy of the form of unit agreements with the Oil and Gas Conservation Board. It is no longer necessary to obtain the approval of Board to unit agreements.

A separate report is issued yearly by the Mines Division and may be obtained from that Division in the Natural Resources Building, Edmonton, Alberta.

Detailed reports of the other Divisions follow.

All of which is respectfully submitted.

H. H. Somerville,

Deputy Minister.

November 5, 1963.

MINERALS DIVISION

Report of the Director of Minerals

J. W. PATRICK

There was no decline in activity in the fourteenth year of the Department of Mines and Minerals.

Footage drilled for petroleum and natural gas during 1962 was 9,106,679 feet. While this was a decrease of 835,593 feet from the previous year, a larger portion of the drilling was done in the foothills area. The production of crude oil increased to 165,124,967 barrels being an increase of 7,313,255 barrels from 1961. The number of producing wells increased from 10,529 to 10,809 and were capable of maintaining an average daily rate of production of 964,947 barrels at December 31, 1962, under good production practice in accordance with sound engineering and economic principles. Because of inadequate markets the average daily oil produced during the year was only 452,397 barrels, an increase of five per cent from the previous year. There were 1,587 licences issued to drill for oil or gas during 1962 compared with 1,577 licences during the previous year.

Production of coal in Alberta in 1962 increased by 59,484 tons.

The production and value of Alberta's chief minerals for 1962 were crude oil, 165,124,967 barrels valued at \$414,210,000.00; coal, 2,087,310 tons valued at \$9,983,327.00; natural gas, *642,968,278, Mcf., valued at \$51,437,462.24; and salt, 48,373 tons valued at \$1,549,912.00.

Mineral rights, solid, liquid and gaseous, the property of the Crown in right of Alberta, are not sold, but are disposed of by lease, reservation, licence, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and other miscellaneous charges. During the fiscal year these sources provided a revenue of \$121,459,484.53 being an increase of \$4,263,050.73 from the previous year. Sales of leases and reservations in Crown Reserves were held on four occasions in the fiscal year and the revenue from this source decreased by fourteen million dollars.

The Province is divided into two mining districts; the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 3,145 applications for mineral rights were filed at the office of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Many inquiries were made as to the availability of mineral rights, mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

*Includes only marketed and consumed gas.

A tabulation of leases together with statements of business transacted follows.

MINERALS DIVISION LEASES

Type of Lease	Active at April 1, 1962	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1963
Petroleum and Natural Gas	31,083	2,631	122	48	4,104	3	29,777
Natural Gas	748	106	---	7	11	---	850
Petroleum	5	2	---	---	---	---	7
Coal	406	13	---	---	21	9	389
Road Allowance Coal	123	7	---	---	28	6	96
Quarrying	98	18	---	---	15	1	100
Salt	2	---	---	---	---	---	2
Bituminous Sands	76	3	---	1	1	---	79
Oil Sands	19	---	---	---	---	---	19
Iron	2	2	---	---	---	---	4
Sodium Sulphate	2	---	---	---	---	---	2
Miscellaneous	6	---	---	---	1	---	5
TOTAL	32,570	2,782	122	56	4,181	19	31,330

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1962	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1963
Petroleum and Natural Gas	28,523,975	3,711,095	83,816	4,952,017	360	27,366,509
Natural Gas	3,094,611	769,851	---	64,022	---	3,800,440
Petroleum	36,471	5,280	---	---	---	41,751
Coal	134,120	4,931	---	5,264	4,480	129,307
Quarrying	16,215	2,762	---	1,138	20	17,819
Salt	1,204	---	---	---	---	1,204
Bituminous Sands	2,413,870	119,729	---	17,473	---	2,516,126
Oil Sands	685,842	---	---	---	---	685,842
Iron	442	13,936	---	---	---	14,378
Sodium Sulphate	2,136	---	---	---	---	2,136
Miscellaneous	3,806	---	---	3,360	---	446
TOTAL	34,912,692	4,627,584	83,816	5,043,274	4,860	34,575,958

STATEMENT OF BUSINESS TRANSACTED, 1962-1963

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	2,631	3,711,095
Leases cancelled and relinquished	4,104	4,952,017
Leases reinstated	122	83,816
Reservations issued	251	13,174,580
Reservations terminated	364	16,774,022
Crown reserve drilling reservations issued	72	641,720
Crown reserve drilling reservations terminated	100	816,863
Permits issued	100	1,355,232
Permits terminated	10	166,720
Natural gas licences issued	22	402,695
Natural gas licences terminated	29	592,784
Crown reserve natural gas licences issued	8	155,040
Crown reserve natural gas licences terminated	22	445,244
Natural gas leases issued	106	769,851
Natural gas leases cancelled and relinquished	11	64,022
Petroleum leases issued	2	5,280
Fees, rentals, penalties and bonuses collected	\$ 38,684,476.58	
Royalties collected	51,038,312.99	
Crown reserve sales	30,498,553.68	
TOTAL	\$120,221,343.25	

COAL

	Number	Acres
Leases issued	13	4,931
Leases cancelled and relinquished	21	5,264
Road Allowance Leases—		
Leases issued	7	
Leases cancelled and relinquished	28	
Fees and rentals collected		\$ 45,776.57
Royalties collected		112,598.42
TOTAL		\$158,374.99

QUARRYING

	Number	Acres
Leases issued	18	2,762
Leases cancelled and relinquished	15	1,138
Fees and rentals collected		\$ 140.34
Royalties collected		68,071.07
TOTAL		\$68,211.41

MISCELLANEOUS

	Number
Bituminous sands leases issued	3
Bituminous sands leases cancelled	1
Bituminous sands prospecting permits issued	3
Bituminous sands prospecting permits terminated	4
Quartz—	
Claims recorded	367
Certificates of work issued	19
Certificates of grouping issued	1
Powers of Attorney filed	2
Transfers recorded	39
Placer—	
Renewals issued	1
Tin prospecting permits terminated	1
Mineral sales	3
Iron leases issued	2
Iron prospecting permits issued	5
Iron prospecting permits terminated	4
Miscellaneous leases cancelled	1
Well licences issued	1,726
Geophysical licences issued	113
Permits to operate geophysical equipment issued	10
Permits to operate geophysical equipment renewed	55
Fees, rentals, royalties and miscellaneous charges	\$1,011,554.88

PETROLEUM AND NATURAL GAS

Leases—During the year 2,631 petroleum and natural gas leases were granted covering 3,711,095 acres and at the close of the fiscal year a total of 29,777 leases were in existence comprising an area of 27,366,509 acres. The Mines and Minerals Act, 1962 which came into force on June 1, 1962 provided that each petroleum and natural gas lease granted following an application made under the Act would be for a term of ten years and at the end of the fiscal year there were 877 of these leases comprising 514,238 acres. Leases formerly granted were for a term of 21 years and any lease that follows a petroleum and natural gas reservation or Crown reserve drilling reservation that was granted before June 1, 1962 also has a term of 21 years. In the same way if a 21 year lease is transferred only as to a portion or is divided, the new lease for the transferred portion or divided portion also carries the 21 year term.

The revenue received from fees amounted to \$23,830.00. The revenue from lease rentals was \$24,023,471.91 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$1,801,781.22. The revenue from compensatory royalty on petroleum and natural gas leases amounted to \$41,295.69.

Disposal of Crown Reserves—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 307 leases, eight reservations, 72 Crown reserve drilling reservations and eight Crown reserve natural gas licences were purchased and particulars of these Crown reserve purchases are included in this report. Particulars of Crown reserve fractional area leases purchased and Crown reserve natural gas leases purchased pursuant to section 280 of The Mines and Minerals Act and section 148 of The Mines and Minerals Act, 1962, are also included.

CROWN RESERVES PURCHASED IN CARSON CREEK NORTH AREA

Description	Offer Accepted From:	Cash Purchase Price
S. ½ 8-62-11-5	Socony Mobil Oil of Canada, Ltd.	\$ 71,176.00
Sec. 1-62-13-5	Pan American Petroleum Corporation	163,840.00
Sec. 2-62-13-5	Pan American Petroleum Corporation	62,080.00
		<hr/>
		\$ 297,096.00

CROWN RESERVES PURCHASED IN CROSSFIELD AREA

Description	Offer Accepted From:	Cash Purchase Price
E. ¼ 10-26-1-5	Transalta Minerals Ltd.	\$ 3,888.00
N.W. ¼ 4-30-3-5	Ashland Oil & Refining Company	3,200.00
		<hr/>
		\$ 7,088.00

CROWN RESERVES PURCHASED IN DEER MOUNTAIN AREA

Description	Offer Accepted From:	Cash Purchase Price
W. ½ 14-69-9-5	Texaco Canada Limited	\$ 16,960.00
E. ½ 23-69-9-5	Pan American Petroleum Corporation	48,125.00
W. ½ 24-69-9-5	Imperial Oil Limited	36,112.15
		<hr/>
		\$ 101,197.15

CROWN RESERVES PURCHASED IN GARRINGTON AREA

Description	Offer Accepted From:	Cash Purchase Price
Sec. 16-35-4-5 (Except Natural Gas in the Viking Zone)	Norcan Oils Ltd.	\$ 37,620.00
Sec. 20-35-4-5	Norcan Oils Ltd.	41,800.00
Sec. 29-35-4-5	Norcan Oils Ltd.	33,440.00
Sec. 30-35-4-5	Norcan Oils Ltd.	37,620.00
E. ½ 10-36-5-5	Norcan Oils Ltd.	16,720.00
		<hr/>
		\$ 167,200.00

CROWN RESERVES PURCHASED IN GARRINGTON SOUTH AREA

Description	Offer Accepted From:	Cash Purchase Price
Sec. 2-32-2-5	Imperial Oil Limited	\$ 35,323.23
Sec. 4-32-2-5	The California Standard Company	17,299.57
		<hr/>
		\$ 52,622.80

CROWN RESERVES PURCHASED IN GILBY AREA

Description	Offer Accepted From:	Cash Purchase Price
S.W. ¼ 20-40-3-5	Denison Mines Limited	\$ 61,009.91
		<hr/>
		\$ 61,009.91

CROWN RESERVES PURCHASED IN GLENEVIS AREA

Description	Offer Accepted From:	Cash Purchase Price
N.W. ¼ 1-56-4-5	Colorado Oil and Gas Ltd.	\$ 33,006.50
S.E. ¼ 1-56-4-5	Colorado Oil and Gas Ltd.	33,006.50
		<hr/>
		\$ 66,013.00

CROWN RESERVES PURCHASED IN GLEN PARK AREA

Description	Offer Accepted From:	Cash Purchase Price
N. ½ & S.W. ¼ 6-49-26-4	Thomas I. Coleman, Jr.	\$ 8,736.00
		<hr/>
		\$ 8,736.00

CROWN RESERVES PURCHASED IN HARMATTAN EAST AREA

Description	Offer Accepted From:	Cash	Purchase Price
S.E. $\frac{1}{4}$ 2-33-3-5 (Except Natural Gas in the Viking, Lower Mannville and Turner Valley Zones)	DeKalb Petroleum Corporation	\$	2,100.00
S.W. $\frac{1}{4}$ 2-33-4-5	Consolidated Mic Mac Oils Ltd.		4,000.00
Sec. 10-33-4-5	Consolidated Mic Mac Oils Ltd.		44,000.00
		\$	50,100.00

CROWN RESERVES PURCHASED IN HOMEGLLEN-RIMBEY AREA

Description	Offer Accepted From:	Cash	Purchase Price
W. $\frac{1}{2}$ 34-43-1-5	The British American Oil Company Limited	\$	11,287.41
		\$	11,287.41

CROWN RESERVES PURCHASED IN JOARCAM AREA

Description	Offer Accepted From:	Cash	Purchase Price
W. $\frac{1}{2}$ 18-49-21-4	The California Standard Company	\$	4,817.28
		\$	4,817.28

CROWN RESERVES PURCHASED IN JUDY CREEK AREA

Description	Offer Accepted From:	Cash	Purchase Price
E. $\frac{1}{2}$ 9-64-10-5	DeKalb Petroleum Corporation	\$	230,000.00
S. $\frac{1}{2}$ 16-64-10-5	DeKalb Petroleum Corporation		27,500.00
W. $\frac{1}{2}$ 21-63-11-5	Imperial Oil Limited		322,145.45
W. $\frac{1}{2}$ 7-64-11-5	Sun Oil Company		270,500.00
E. $\frac{1}{2}$ 7-64-11-5	Imperial Oil Limited		300,545.55
W. $\frac{1}{2}$ 8-64-11-5	Imperial Oil Limited		260,636.36
W. $\frac{1}{2}$ 2-63-11-5	Imperial Oil Limited		40,522.22
Sec. 3-63-11-5	Imperial Oil Limited		130,845.45
S. $\frac{1}{2}$ 9-63-11-5	Imperial Oil Limited		47,015.15
		\$	1,629,710.18

CROWN RESERVE PURCHASED IN KAYBOB AREA

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 19-63-19-5	Pan American Petroleum Corporation	\$	41,666.00
W. $\frac{1}{2}$ 20-63-19-5	Pan American Petroleum Corporation		65,666.00
Sec. 30-63-19-5	Pan American Petroleum Corporation		64,044.00
Sec. 31-63-19-5	Pan American Petroleum Corporation		64,044.00
		\$	235,420.00

CROWN RESERVES PURCHASED IN LEAFLAND AREA

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 28-39-5-5	DeKalb Petroleum Corporation	\$	25,000.00
Sec. 32-39-5-5	Canadian Homestead Oils Limited		65,100.00
W. $\frac{1}{2}$ 34-39-5-5	Ashland Oil & Refining Company, Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited		36,000.00
E. $\frac{1}{2}$ 31-39-5-5	Canadian Homestead Oils Limited		32,330.00
Sec. 6-40-5-5	DeKalb Petroleum Corporation		55,000.00
S.W. $\frac{1}{4}$ 27 & N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 28-40-5-5	Swain Oils Ltd.		30,300.00
E. $\frac{1}{2}$ 12-40-6-5	DeKalb Petroleum Corporation		15,800.00
		\$	259,530.00

CROWN RESERVES PURCHASED IN PEMBINA AREA

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 2-48-2-5	Denison Mines Limited	\$	187,009.91
Sec. 1-48-2-5	Denison Mines Limited		21,099.10
Sec. 24-48-3-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited		36,100.00
Sec. 3-48-6-5	Mid-Western Industrial Gas Ltd.		26,950.40
S. $\frac{1}{2}$ 4-48-6-5	Mid-Western Industrial Gas Ltd.		16,070.40
S. $\frac{1}{2}$ 10-48-6-5	Canadian Superior Oil Ltd.		42,133.00
N.E. $\frac{1}{4}$ 18-50-10-5	Sun Oil Company		11,300.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 19-50-10-5	Ashland Oil & Refining Company		26,500.00
N. $\frac{1}{2}$ 24-50-11-5	Texaco Exploration Company and Texaco Canada Limited		4,854.40
		\$	372,017.21

CROWN RESERVES PURCHASED IN STURGEON LAKE SOUTH AREA

Description	Offer Accepted From:	Cash Purchase Price
S.W. 1/4 5-69-22-5	Medallion Petroleums Limited and Ashland Oil & Refining Company	\$ 5,500.00
S.E. 1/4 9-69-22-5	Medallion Petroleums Limited and Ashland Oil & Refining Company	3,500.00
		<u>\$ 9,000.00</u>

CROWN RESERVES PURCHASED IN SWAN HILLS AREA

Description	Offer Accepted From:	Cash Purchase Price
W. 1/2 10-65-11-5	Pan American Petroleum Corporation and The British American Oil Company Limited	\$ 50,211.50
W. 1/2 15-66-11-5	Pan American Petroleum Corporation and The British American Oil Company Limited	90,211.50
W. 1/2 30-67-9-5	Dome Petroleum Limited, DeKalb Petroleum Corporation and Consumers' Co-operative Refineries Limited	108,421.00
E. 1/2 27-65-11-5	Imperial Oil Limited	583,775.75
E. 1/2 5-66-10-5	Imperial Oil Limited	211,424.24
Sec. 14-68-10-5	Western Decalta Petroleum Limited	211,350.00
E. 1/2 30-67-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	140,111.12
N.E. 1/4 33-65-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	30,602.48
S. 1/2 4-66-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	10,004.00
Sec. 13-68-10-5	Imperial Oil Limited	129,345.45
E. 1/2 24-68-10-5	Imperial Oil Limited	40,755.55
N. 1/2 34-64-11-5	Pan American Petroleum Corporation and The British American Oil Company Limited	80,402.20
Sec. 22-68-11-5	Home Oil Company Limited, Alminex Limited, United Oils, Limited and Regent Refining (Canada) Limited	30,172.00
		<u>\$ 1,716,786.79</u>

CROWN RESERVES PURCHASED IN VIRGINIA HILLS AREA

Description	Offer Accepted From:	Cash Purchase Price
W. 1/2 18-64-13-5	Tenneco Oil Company	\$ 51,543.00
Sec. 19-64-13-5	Tenneco Oil Company	106,243.00
W. 1/2 29-64-13-5	Canadian Superior Oil Ltd.	16,113.00
E. 1/2 15-64-13-5	The Atlantic Refining Company	65,500.00
		<u>\$ 239,399.00</u>

CROWN RESERVES PURCHASED IN WESTWARD-HO AREA

Description	Offer Accepted From:	Cash Purchase Price
N. 1/2 4-33-4-5	Montclair Oil Ltd.	\$ 24,127.87
N. 1/2 18-33-4-5	Montclair Oil Ltd.	16,156.75
		<u>\$ 40,284.62</u>

CROWN RESERVES PURCHASED IN WILLESDEN GREEN AREA

Description	Offer Accepted From:	Cash Purchase Price
N.E. 1/4 26-42-6-5	Mid-Western Industrial Gas Ltd.	\$ 25,284.20
S.E. 1/4 34-42-6-5	Canadian Homestead Oils Limited	25,917.00
W. 1/2 35-42-6-5	Canadian Homestead Oils Limited	20,646.00
S. 1/2 & N.W. 1/4 2-43-6-5	Canadian Homestead Oils Limited	10,100.00
E. 1/2 3-43-6-5	American Metal Climax, Inc.	27,117.63
W. 1/2 9-42-7-5	Wintershall Oil of Canada Ltd.	57,655.00
E. 1/2 17-42-7-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	62,000.00
Sec. 18-41-5-5	Canadian Homestead Oils Limited	10,500.00
Sec. 19-41-5-5	Canadian Homestead Oils Limited	10,500.00
Sec. 13-41-6-5	Canadian Devonian Petroleums Limited	36,656.00
Sec. 14-41-6-5	Ashland Oil & Refining Company, Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	33,000.00
E. 1/2 19 & W. 1/2 20-42-7-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	75,000.00
W. 1/2's 30 & 31-42-7-5	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Westburne Oil Development Limited	66,000.00
E. 1/2 36-42-8-5	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Norman Foster Blair	33,000.00
E. 1/2 1-43-8-5	Amex Petroleum Corporation	36,445.00
E. 1/2 35-42-6-5	Canadian Homestead Oils Limited	3,280.00
N. 1/2 16-43-6-5	Canadian Homestead Oils Limited	3,600.00
N. 1/2 35 & N.W. 1/4 36-42-8-5	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Edwin Foster Blair	7,200.00
S.W. 1/4 1 & S. 1/2 2-43-8-5	Whitehall Canadian Oil Ltd., Ashland Oil & Refining Company and Edwin Foster Blair	14,100.00
		<u>\$ 558,000.83</u>

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

Description	Offer Accepted From:	Cash Purchase Price
Sec. 24-37-19-4	United Producing Company, Inc.	\$ 7,603.20
Sec. 34-37-19-4	United Producing Company, Inc.	7,603.20
Sec. 6-30-21-4	Sun Oil Company	30,379.50
W. $\frac{1}{2}$ 10-31-21-4	Murphy Oil Company Ltd. and United Producing Company, Inc.	17,027.36
N. $\frac{1}{2}$ 31-32-22-4	The British American Oil Company Limited	8,086.47
Sec. 6-33-22-4	The British American Oil Company Limited	16,172.87
E. $\frac{1}{2}$ 11-42-22-4	Home Oil Company Limited, Westcoast Production Co. Ltd. and Alminex Limited	4,819.20
Sec. 14-30-23-4	Murphy Oil Company Ltd. and United Producing Company, Inc.	12,083.20
Sec. 29-30-23-4	Murphy Oil Company Ltd. and United Producing Company, Inc.	12,026.56
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 18-38-23-4	The British American Oil Company Limited	10,176.47
S.W. $\frac{1}{4}$ 20-38-23-4	The British American Oil Company Limited	2,471.17
E. $\frac{1}{2}$ 32-40-23-4	The British American Oil Company Limited	11,318.44
Sec. 10-41-23-4	The British American Oil Company Limited	22,638.57
E. $\frac{1}{2}$ 18-32-24-4	J. M. Huber Corporation	13,121.16
W. $\frac{1}{2}$ 20-32-24-4	Ashland Oil & Refining Company	11,150.00
N.E. $\frac{1}{4}$ 30 & S.E. $\frac{1}{4}$ 31-32-24-4	Ashland Oil & Refining Company	126,000.00
E. $\frac{1}{2}$ 6-33-24-4	Denison Mines Limited	127,009.91
Sec. 4-37-24-4	The British American Oil Company Limited	16,263.77
Sec. 16-37-24-4	The British American Oil Company Limited	16,237.81
W. $\frac{1}{2}$ 24-38-24-4	The British American Oil Company Limited	6,827.66
W. $\frac{1}{2}$ 18-39-24-4	The British American Oil Company Limited	3,878.51
Sec. 32-39-24-4	The British American Oil Company Limited	22,626.27
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 36-32-25-4	Consolidated Mic Mac Oils Ltd., J. Ray McDermott Co., Inc. and S. & T. Drilling Co. Ltd.	26,000.00
W. $\frac{1}{2}$ 32-36-26-4	Transalta Minerals Ltd.	4,960.00
N. $\frac{1}{2}$ 34-37-26-4	The British American Oil Company Limited	8,086.44
N. $\frac{1}{2}$ 16-38-26-4	Skelly Oil Company	12,017.22
S.W. $\frac{1}{4}$ 18-27-27-4	Canadian Pacific Oil and Gas Limited	20,400.00
Sec. 14-33-27-4	Tenneco Oil Company	13,664.00
Sec. 16-34-27-4	Murphy Oil Company Ltd.	24,243.20
N. $\frac{1}{2}$ 36-36-27-4	Transalta Minerals Ltd.	4,320.00
W. $\frac{1}{2}$ 12-40-27-4	Canadian Superior Oil Ltd.	11,313.00
Sec. 20-48-27-4	Texaco Exploration Company	8,166.40
L.S. 3-21-48-27-4	Texaco Exploration Company	510.40
N.W. $\frac{1}{4}$ 2-27-28-4	Texaco Exploration Company	24,142.42
E. $\frac{1}{2}$ 20-28-28-4	Canadian Pacific Oil and Gas Limited	40,800.00
Sec. 10-29-28-4	Transalta Minerals Ltd.	9,920.00
Frac. Sec. 16-45-28-4	Pan American Petroleum Corporation	5,305.36
W. $\frac{1}{2}$ 14-33-2-5	Hudson's Bay Oil and Gas Company Limited	13,174.40
N.E. $\frac{1}{4}$ 26-33-2-5	Hudson's Bay Oil and Gas Company Limited	4,187.20
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 34-41-2-5	Canadian Superior Oil Ltd.	12,175.00
N.E. $\frac{1}{4}$ 28-33-3-5 (Except Natural Gas in the Viking, Lower-Mannville Turner Valley Zones)	DeKalb Petroleum Corporation	1,920.00
W. $\frac{1}{2}$ 18-34-3-5	Transalta Minerals Ltd.	8,134.50
N. $\frac{1}{2}$ 32-34-3-5	Transalta Minerals Ltd.	6,519.00
S. $\frac{1}{2}$ 30-37-3-5 (Except the Natural Gas in the Basal Blairmore and Elkton Zones)	Canadian Kewanee Limited	40,041.11
Sec. 6-38-3-5 (Except the Natural Gas in the Basal Blairmore and Elkton Zones)	Apache Corporation, The British American Oil Company Limited and Brinkerhoff Drilling Co. Ltd.	27,795.20
S. $\frac{1}{2}$ 7-38-3-5 (Except the Natural Gas in the Basal Blairmore and Elkton Zones)	Apache Corporation, The British American Oil Company Limited and Brinkerhoff Drilling Co. Ltd.	13,897.60
N. $\frac{1}{2}$ 24 & S. $\frac{1}{2}$ 25-37-4-5 (Except the Natural Gas in the Basal Blairmore and Elkton Zones)	Apache Corporation, The British American Oil Company Limited and Brinkerhoff Drilling Co. Ltd.	27,795.20
N. $\frac{1}{2}$ 3-38-4-5	Triad Oil Co. Ltd. and Canadian Devonian Petroleum Limited	16,687.88
N. $\frac{1}{2}$ 4-38-4-5	Hudson's Bay Oil and Gas Company Limited	16,374.40
S. $\frac{1}{2}$ 9-38-4-5	Hudson's Bay Oil and Gas Company Limited	32,694.40
W. $\frac{1}{2}$ 19-39-4-5	Canadian Superior Oil Ltd.	6,553.00
W. $\frac{1}{2}$ 30-39-4-5	Transalta Minerals Ltd.	8,211.00
Sec. 2-42-4-5	Canadian Superior Oil Ltd.	16,226.00
Sec. 1-44-4-5	Canadian Superior Oil Ltd. and Imperial Oil Limited	13,026.00
N. $\frac{1}{2}$ 29-31-5-5	The Paddon Hughes Development Co. Ltd.	4,880.00
E. $\frac{1}{2}$ 1-38-5-5	Sun Oil Company	13,440.00
S. $\frac{1}{2}$ 12-38-5-5	Sun Oil Company	13,440.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 23-41-7-5	Amerada Petroleum Corporation	\$	22,444.44
N. 1/2 & S.W. 1/4	Denison Mines Limited		256,009.91
W. 1/2 6-51-10-5	Canadian Devonian Petroleum Limited		21,606.00
W. 1/2 7-51-10-5	Whitehall Canadian Oils Ltd.		47,500.00
Sec. 14-68-11-5	Canadian Kewanee Limited, Apache Corporation and Medallion Petroleum Limited		166,411.13
Sec. 23-68-11-5	Canadian Kewanee Limited, Apache Corporation and Medallion Petroleum Limited		131,011.14
N. 1/2 16 & S. 1/2 21-70-11-5	Canadian Superior Oil Ltd.		19,426.00
N. 1/2's 33 & 34-70-11-5	Canadian Superior Oil Ltd.		19,426.00
N. 1/2 & S.W. 1/4 20-63-12-5	Teaco Exploration Company		73,065.60
S. 1/2 29-63-12-5	Texaco Exploration Company		48,710.40
E. 1/2 35-63-13-5	Texaco Exploration Company		33,331.20
S. 1/2 36-63-13-5	Texaco Exploration Company		33,331.20
E. 1/2 11-64-13-5	Ashland Oil & Refining Company, Westburne Oil Development Limited, Williamson Oil & Gas Ltd. and Medallion Petroleum Limited		16,000.00
S. 1/2 13-64-13-5	Sun Oil Company		14,400.00
Sec. 20-64-13-5	Tenneco Oil Company		26,117.00
Sec. 2-56-14-5	Triad Oil Co. Ltd.		9,679.37
Sec. 32-64-14-5	Tenneco Oil Company		45,369.00
Sec. 3-65-14-5	Sun Oil Company		39,040.00
Sec. 17-68-14-5	Imperial Oil Limited		18,055.65
Sec. 19-62-15-5	Triad Oil Co. Ltd., Canadian Export Gas & Oil Ltd. and Clark Oil & Refining Corporation		32,113.24
Sec. 23-63-15-5	Royalite Oil Company, Limited and Canadian Devonian Petroleum Limited		26,963.20
Sec. 7-64-15-5	Tenneco Oil Company		35,269.00
Sec. 36-64-15-5	Tenneco Oil Company		80,738.00
N. 1/2's 35 & 36-62-16-5	Texaco Canada Limited		38,400.00
Sec. 30-69-17-5	The Atlantic Refining Company		47,680.00
Sec. 34-66-20-5	Transalta Minerals Ltd.		11,840.00
Sec. 12-30-1-5			
(Except Natural Gas in the Wabamun Zone)	Imperial Oil Limited		48,543.33
S. 1/2 28-30-1-5			
(Except Natural Gas in the Wabamun Zone)	Imperial Oil Limited		12,345.45
N. 1/2 & S.E. 1/4 12-42-3-5	Canadian Superior Oil Ltd.		32,223.00
E. 1/2 22-33-4-5	H. W. Bass & Sons, Inc.		127,257.11
N. 1/2 & S.E. 1/4 34-33-4-5			
(Except Natural Gas in the Viking, Lower Mannville and Turner Valley Zones)	DeKalb Petroleum Corporation		10,100.00
Sec. 12-44-4-5	Devon-Palmer Oils Ltd. and Prairie Oil Royalties Company, Ltd.		14,828.80
W. 1/2 3-52-8-5	Denison Mines Limited		4,009.91
Sec. 10-67-11-5	Union Oil Company of Canada Limited		32,100.00
Sec. 6-63-12-5	Union Oil Company of Canada Limited		64,550.00
Sec. 9-53-13-5	Union Oil Company of Canada Limited		9,700.00
Sec. 16-53-13-5	Union Oil Company of Canada Limited		9,700.00
N. 1/2 28 & S. 1/2 33-57-14-5	Union Oil Company of Canada Limited		16,100.00
N. 1/2 29 & S. 1/2 32-57-14-5	Union Oil Company of Canada Limited		16,100.00
N. 1/2 25-52-15-5	Socony Mobil Oil of Canada, Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited		16,664.64
E. 1/2 26-52-15-5	Socony Mobil Oil of Canada, Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited		16,664.64
Sec. 36-52-15-5	Socony Mobil Oil of Canada, Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited		33,329.28
Sec. 26-62-15-5	Imperial Oil Limited		38,554.54
Sec. 30-62-15-5	Triad Oil Co. Ltd., Clark Oil & Refining Corporation and Canadian Export Gas & Oil Ltd.		48,102.44
Sec. 16-66-17-5	Triad Oil Co. Ltd.		25,702.44
Sec. 14-67-17-5	Texaco Exploration Company and Texaco Canada Limited		33,804.84
E. 1/2 24-67-17-5	Texaco Exploration Company and Texaco Canada Limited		19,638.48
E. 1/2 25-67-17-5	Texaco Exploration Company and Texaco Canada Limited		17,817.66

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
S. 1/2 & N.E. 1/4 1-70-18-5	Imperial Oil Limited	\$ 57,722.22
W. 1/2 27 & E. 1/2 28-70-18-5	The California Standard Company	115,643.49
Sec. 5 & S. 1/2 36-71-18-5	The Atlantic Refining Company	35,250.00
N. 1/2 5 & S. 1/2 8-65-21-5	Union Oil Company of Canada Limited	12,900.00
N. 1/2 6 & S. 1/2 7-65-21-5	Union Oil Company of Canada Limited	12,900.00
S. 1/2 29-64-24-5	The Calgary & Edmonton Corporation Limited, Canadian Oil Companies, Limited and Canadian Fina Oil Limited	24,420.22
E. 1/2 33-64-24-5	The Calgary & Edmonton Corporation Limited, Canadian Oil Companies, Limited and Canadian Fina Oil Limited	24,420.22
N.W. 1/4 5 & N.E. 1/4 6-65-24-5	Pan American Petroleum Corporation	32,090.00
N. 1/2 2-84-13-6	Imperial Oil Limited and Pan American Petroleum Corporation	6,455.66
N. 1/2 3-84-13-6	Imperial Oil Limited and Pan American Petroleum Corporation	6,455.66
N. 1/2 & Frac. S.W. 1/4 4-84-13-6	Altair Oil & Gas Co.	4,920.00
S. 1/2 & Frac. N.W. 1/4 9-84-13-6	Altair Oil & Gas Co.	7,398.00
S. 1/2 10-84-13-6	Imperial Oil Limited and Pan American Petroleum Corporation	6,455.66
N. 1/2 & S.E. 1/4 20-38-3-5 (Except Natural Gas in the Blairmore and Elkton Zones)	Apache Corporation and The British American Oil Company Limited	35,520.00
N. 1/2 & S.E. 1/4 22-38-3-5	Apache Corporation and The British American Oil Company Limited	32,160.00
E. 1/2 2-39-3-5	Imperial Oil Limited	10,106.66
Sec. 10-39-3-5	The Atlantic Refining Company	163,000.00
W. 1/2 14-39-3-5	Apache Corporation, The British American Oil Company Limited, Triad Oil Co. Ltd. and Dome Petroleum Limited	38,720.00
E. 1/2 22-39-3-5	Apache Corporation, The British American Oil Company Limited, Triad Oil Co. Ltd. and Dome Petroleum Limited	45,760.00
E. 1/4 36-41-3-5	Amerada Petroleum Corporation	25,638.92
N. 1/2 11-42-3-5	Amerada Petroleum Corporation	14,444.44
N. 1/2 33-40-4-5	Transalta Minerals Ltd.	3,888.00
S. 1/2 4-41-4-5	Transalta Minerals Ltd.	4,532.00
Sec. 4-32-5-5	Montreal Trust Company	22,486.81
Sec. 16-32-5-5	Montreal Trust Company	22,486.81
Sec. 20-32-5-5	Montreal Trust Company	22,486.81
N. 1/2 & S.W. 1/4 14-34-6-5	National Trust Company Limited	24,111.98
E. 1/4 15-34-6-5	National Trust Company Limited	24,066.98
N.W. 1/4 & S.E. 1/4 22-34-6-5	National Trust Company Limited	16,066.98
S. 1/4 23-34-6-5	National Trust Company Limited	24,066.98
N. 1/2 16-43-8-5	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Norman Foster Blair	5,940.00
N.E. 1/4 33-38-9-5	The British American Oil Company Limited	6,001.13
S. 1/2 21-51-11-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	262,120.88
S. 1/2 22-51-11-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	64,580.88
Sec. 4-63-15-5	Canadian Superior Oil Ltd.	67,303.00
E. 1/2's 24 & 25-67-15-5	The California Standard Company	17,936.82
Sec. 35-67-15-5	Pan American Petroleum Corporation	13,457.00
Sec. 36-67-15-5	Pan American Petroleum Corporation	19,862.00
Sec. 9-65-16-5	Pan American Petroleum Corporation	19,862.00
Sec. 17-65-16-5	The Atlantic Refining Company	35,200.00
Sec. 18-65-16-5	The Atlantic Refining Company	35,200.00
Sec. 21-66-16-5	Texaco Exploration Company and Texaco Canada Limited	34,416.18
Sec. 28 & S. 1/2 33-66-16-5	Texaco Exploration Company and Texaco Canada Limited	45,696.18
N. 1/4 29-66-16-5	Pan American Petroleum Corporation	19,855.00
N. 1/2 32-70-18-5	Marathon Oil Company	73,700.00
N. 1/2 33-70-18-5	The California Standard Company	143,638.30
S.E. 1/4 33 & S.W. 1/4 34-70-18-5	The California Standard Company	143,638.30
S. 1/4 3-71-18-5	The California Standard Company	143,638.30
E. 1/2 19-56-20-5	Socony Mobil Oil of Canada Ltd. and Canadian Superior Oil Ltd.	33,600.00
Sec. 20-56-20-5	Socony Mobil Oil of Canada Ltd. and Canadian Superior Oil Ltd.	48,000.00
W. 1/2 21-56-20-5	Socony Mobil Oil of Canada Ltd. and Canadian Superior Oil Ltd.	19,200.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Sec. 2-60-21-5	Canadian Superior Oil Ltd.	\$ 30,103.00
W. 1/2's 18 & 19-66-23-5	Pan American Petroleum Corporation	13,461.00
S. 1/2 & N.W. 1/4 4-66-24-5	Pan American Petroleum Corporation	24,511.00
E. 1/2's 13 & 24-66-24-5	Pan American Petroleum Corporation	13,461.00
N. 1/2 6 & W. 1/2 7-61-25-5	Monsanto Oils Ltd. and Monsanto Chemical Company	53,880.40
W. 1/2 18 & S.W. 1/4 19-61-25-5	Monsanto Oils Ltd. and Monsanto Chemical Company	40,372.80
N.E. 1/4 1 & E. 1/2 12-61-26-5	Monsanto Oils Ltd. and Monsanto Chemical Company	40,372.80
E. 1/2 13 & S.E. 1/4 24-61-26-5	Monsanto Oils Ltd. and Monsanto Chemical Company	40,372.80
Sec. 31-63-26-5	The Atlantic Refining Company	35,200.00
Sec. 19-64-26-5	The California Standard Company	48,317.29
Frac. Sec. 3 & Frac. Sec. 10-64-27-5	The Atlantic Refining Company	38,885.00
N. 1/2 35-86-1-6	Shell Oil Company of Canada Limited	25,062.62
S. 1/2 1-87-1-6	Shell Oil Company of Canada Limited	25,086.68
S. 1/2 2-87-1-6	Shell Oil Company of Canada Limited	25,078.91
N. 1/4 11-36-1-5 (Except Natural Gas in the Upper Pekisko Zone)	Canada-Cities Service Petroleum Corporation	17,171.00
S. 1/2 14-36-1-5 (Except Natural Gas in the Upper Pekisko Zone)	Canada-Cities Service Petroleum Corporation	11,611.00
E. 1/2 24-36-1-5 (Except Natural Gas in the Upper Pekisko Zone)	Tenneco Corporation	5,541.00
S. 1/2 & N.W. 1/4 4-37-2-5	Imperial Oil Enterprises Ltd.	20,525.25
Sec. 30-37-2-5	Imperial Oil Enterprises Ltd.	19,415.15
Sec. 36-36-3-5	Imperial Oil Enterprises Ltd., Canadian Export Gas & Oil Ltd., Clark Oil & Refining Corporation and Norcan Oils Ltd.	25,768.00
W. 1/2 2-39-3-5	The Atlantic Refining Company	25,789.00
W. 1/2 30-39-3-5	Brinkerhoff Drilling Co. Ltd., Ashland Oil & Refining Company, Western Decalta Petroleum Limited and Fargo Oils Ltd.	24,320.00
Sec. 36-39-4-5	Pacific Petroleum Ltd.	80,064.00
S. 1/2 2-41-4-5	Canadian Pacific Oil and Gas Limited	24,640.00
N. 1/2 28-31-5-5	The Paddon Hughes Development Co. Ltd.	5,600.00
W. 1/2 31-37-6-5	Supertest Petroleum Corporation, Limited	4,620.00
Sec. 10-39-6-5	DeKalb Petroleum Corporation	16,000.00
W. 1/2 30-39-8-5	Sinclair Canada Oil Company	8,111.00
W. 1/2 25 & N.E. 1/4 26-39-9-5	Sinclair Canada Oil Company	7,311.00
Sec. 35-39-9-5	Sinclair Canada Oil Company	12,911.00
Sec. 29-67-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	140,111.12
W. 1/2 23-69-9-5	Pan American Petroleum Corporation	51,844.00
S.W. 1/4 25 & S.E. 1/4 26-69-9-5	Pan American Petroleum Corporation	51,844.00
W. 1/2 26-69-9-5	Pan American Petroleum Corporation	80,644.00
W. 1/2 35-69-9-5	Pan American Petroleum Corporation	36,484.00
Sec. 3-63-10-5	Sun Oil Company	32,000.00
N. 1/2 34-68-10-5	Home Oil Company Limited, Alminex Limited, United Oils, Limited and Regent Refining (Canada) Limited	80,172.00
Sec. 17-51-11-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	75,675.85
N. 1/2 21-51-11-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	133,895.71
N. 1/2 18-62-12-5	Pan American Petroleum Corporation	5,216.00
Sec. 31-54-13-5	Pan American Petroleum Corporation	19,222.00
W. 1/2 2 & E. 1/2 3-57-13-5	French Petroleum Company of Canada Ltd.	53,386.87
E. 1/2 10 & W. 1/2 11-57-13-5	French Petroleum Company of Canada Ltd.	53,386.87
Sec. 33-57-13-5	Pan American Petroleum Corporation	23,044.00
E. 1/2 15-59-13-5	Pan American Petroleum Corporation	11,522.00
Sec. 36-54-14-5	Tenneco Corporation, Sun Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	21,760.00
W. 1/2 7-61-14-5	Canadian Superior Oil Ltd.	24,254.00
Sec. 5-53-15-5	Champlin Oil & Refining Co.	33,139.20
Sec. 29-53-15-5	Tenneco Corporation, Sun Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	32,640.00
Sec. 36-54-15-5	Tenneco Corporation, Sun Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	41,600.00
W. 1/2 7-56-15-5	The Calgary & Edmonton Corporation Limited	3,424.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 13-61-15-5	The Atlantic Refining Company	\$ 11,986.00
N. $\frac{1}{2}$ 23-61-15-5	Canadian Superior Oil Ltd.	24,254.00
N. $\frac{1}{2}$ 24-61-15-5	Hamilton Brothers Canadian Gas Company Ltd.	18,560.00
Sec. 19-53-16-5	Champlin Oil & Refining Co.	33,139.20
N. $\frac{1}{2}$ 35-55-16-5	Tenneco Corporation	13,801.00
S. $\frac{1}{2}$ 2-56-16-5	Tenneco Corporation	13,801.00
E. $\frac{1}{2}$ 12-56-16-5	Canada-Cities Service Petroleum Corporation	17,971.00
Sec. 15-65-16-5	Sun Oil Company	46,080.00
Sec. 1-52-17-5	Texaco Exploration Company	42,028.80
W. $\frac{1}{2}$ 31-54-17-5	The California Standard Company	19,203.78
Sec. 29 &		
Sec. 32-67-17-5	Skelly Oil Company	321,241.60
Sec. 27-71-17-5	Skelly Oil Company	160,390.40
W. $\frac{1}{2}$ 35-54-18-5	Consolidated Mic Mac Oils Ltd., Denison Mines Limited and Ashland Oil & Refining Company	21,450.00
E. $\frac{1}{2}$ 35-54-18-5	The California Standard Company	25,605.04
W. $\frac{1}{2}$ 36-54-18-5	The California Standard Company	25,605.04
E. $\frac{1}{2}$ 36-54-18-5	The California Standard Company	25,605.04
Sec. 16-56-18-5	Canadian Superior Oil Ltd.	19,327.00
Sec. 28-57-18-5	Canadian Superior Oil Ltd.	32,127.00
Sec. 16-58-18-5	Canadian Superior Oil Ltd.	19,327.00
W. $\frac{1}{2}$ 35-66-18-5	The Pure Oil Company	35,601.91
W. $\frac{1}{2}$ 1-67-18-5	Triad Oil Co. Ltd. and Richfield Oil Corporation	16,022.40
W. $\frac{1}{2}$ 12-67-18-5	The California Standard Company	31,211.39
E. $\frac{1}{2}$ 23-60-19-5	Socony Mobil Oil of Canada, Ltd.	11,200.00
Sec. 24-60-19-5	Socony Mobil Oil of Canada, Ltd.	22,400.00
S. $\frac{1}{2}$'s 2 &		
E. $\frac{1}{2}$'s 20 &		
3-61-19-5	Socony Mobil Oil of Canada, Ltd.	22,400.00
29-61-19-5	The Calgary & Edmonton Corporation Limited	30,918.40
E. $\frac{1}{2}$ 14-66-19-5	Pan American Petroleum Corporation	11,222.00
N. $\frac{1}{2}$ 21-66-19-5	Pan American Petroleum Corporation	9,665.00
Sec. 2-67-19-5	Pan American Petroleum Corporation	64,640.00
S. $\frac{1}{2}$ 23-67-19-5	Imperial Oil Enterprises Ltd.	32,415.65
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$		
15-71-19-5	Imperial Oil Enterprises Ltd.	12,211.11
W. $\frac{1}{2}$ 30-60-20-5 and		
E. $\frac{1}{2}$ 25-60-21-5	Sun Oil Company	51,200.00
Sec. 20-72-20-5	The Atlantic Refining Company	19,389.00
S. $\frac{1}{2}$ 34-63-21-5	Texaco Canada Limited	13,760.00
Sec. 35-63-21-5	Texaco Canada Limited	27,520.00
N.W. $\frac{1}{4}$ Frac.		
33-84-13-6	Scurry-Rainbow Oil Limited	54,445.00
W. $\frac{1}{2}$ Frac 4 & S.W. $\frac{1}{4}$		
Frac. 9-85-13-6	Sun Oil Company	265,400.00
		\$ 8,499,639.22

PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES

Description	Offer Accepted From:	Cash Purchase Price
Comprising 46,080 acres in township 51, ranges 13 and 14, west of the 5th meridian and located in Cynthia Provincial Reserve.	Hudson's Bay Oil and Gas Company Limited	\$ 752,025.60
Comprising 46,080 acres in township, 52, ranges 13, and 14, west of the 5th meridian and located in Cynthia Provincial Reserve.	Hudson's Bay Oil and Gas Company Limited	1,003,161.60
Comprising 46,080 acres in townships 58 and 59, range 6, west of the 6th meridian and located in Smoky River Provincial Reserve.	Imperial Oil Limited	61,213.13
Comprising 46,080 acres in townships 58 and 59, range 7, west of the 6th meridian and located in Smoky River Provincial Reserve.	Imperial Oil Limited	101,221.21
Comprising 46,080 acres in townships 60 and 61, range 8, west of the 6th meridian and located in Smoky River Provincial Reserve.	Socony Mobil Oil of Canada, Ltd.	138,541.99
Comprising 46,080 acres in townships 60 and 61, range 9, west of the 6th meridian and located in Smoky River Provincial Reserve.	Imperial Oil Limited	140,525.25
Comprising 46,080 acres in townships 73 and 74, range 2, west of the 5th meridian and located in Marten Hills Provincial Reserve.	Canadian Oil Companies, Limited	55,800.00
Comprising 46,080 acres in townships 73 and 74, range 3, west of the 5th meridian and located in Marten Hills Provincial Reserve.	Imperial Oil Limited	58,167.67
		\$ 2,310,656.45

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Comprising 7,040 acres in township 33, ranges 23 and 24, west of the 4th meridian and in township 34, ranges 24 and 25, west of the 4th meridian—Banff formation—ten quarter sections.	Pan American Petroleum Corporation	\$ 18,304.00
Comprising 7,680 acres in townships 41 and 42, range 5, west of the 5th meridian—Mississippian—eleven quarter sections.	Canberra Oil Company Ltd.	134,763.20
Comprising 9,440 acres in townships 39 and 40, ranges 6 and 7, west of the 5th meridian—Shunda formation of the Rundle group—fourteen quarter sections.	Devon-Palmer Oils Ltd. (No Personal Liability), Prairie Oil Royalties Company, Ltd., Alminex Limited and Security Freehold Petroleum Limited	133,884.80
Comprising 7,680 acres in townships 45 and 46, range 6, west of the 5th meridian—Mississippian—eleven quarter sections.	Canadian Delhi Oil Ltd., Great Plains Development Co. of Canada Ltd., Bailey Selburn Oil & Gas Ltd., The British American Oil Company Limited, Canadian Seaboard Oil Company, Pan American Petroleum Corporation and Pacific Petroleum Ltd.	17,600.00
Comprising 7,040 acres in townships 43 and 44, ranges 7 and 8, west of the 5th meridian—Cardium formation—ten quarter sections.	Union Oil Company of Canada Limited, Canadian Superior Oil Ltd., Bailey Selburn Oil & Gas Ltd. and Triad Oil Co. Ltd.	17,000.00
Comprising 7,520 acres in townships 69 and 70, ranges 9 and 10, west of the 5th meridian—Gilwood sand of the Elk Point group—eleven quarter sections.	Sinclair Canada Oil Company, Pacific Petroleum Ltd. and Pan American Petroleum Corporation	76,688.88
Comprising 9,440 acres in township 69, range 15, west of the 5th meridian and in townships 68 and 69, ranges 16 and 17, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	The California Standard Company	24,001.77
Comprising 10,560 acres in township 53, ranges 17 and 18, west of the 5th meridian—Banff formation—sixteen quarter sections.	Hudson's Bay Oil and Gas Company Limited	\$ 576,691.20
Comprising 10,560 acres in townships 67 and 68, ranges 17 and 18, west of the 5th meridian and in township, 69, range 18, west of the 5th meridian—immediately above the Precambrian granite—sixteen quarter sections.	The California Standard Company	51,637.22
Comprising 10,560 acres in townships 52 and 53, range 18, west of the 5th meridian—Elkton member of the Turner Valley formation—sixteen quarter sections.	Hamilton Brothers Canadian Gas Company Limited	534,550.00
Comprising 7,040 acres in townships 63 and 64, range 20, west of the 5th meridian—Mississippian—ten quarter sections.	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	51,876.11
Comprising 10,880 acres in townships 62 and 63, range 22, west of the 5th meridian and in township 62, range 23, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Sun Oil Company	28,441.60
Comprising 7,040 acres in township 55, ranges 8 and 9, west of the 5th meridian—Banff formation—ten quarter sections.	Canadian Superior Oil Ltd.	50,211.00
Comprising 6,400 acres in township 88, range 8, west of the 5th meridian and in townships 87 and 88, range 9, west of the 5th meridian—granite wash—nine quarter sections.	Dome Petroleum Limited, Provo Gas Producers Limited and Supertest Petroleum Corporation Limited	14,410.00
Comprising 7,520 acres in townships 52 and 53, range 9, west of the 5th meridian—Mississippian—eleven quarter sections.	Pan American Petroleum Corporation, Pacific Petroleum Ltd. and Texaco Exploration Company	18,048.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 9,600 acres in township 64, range 14, west of the 5th meridian and in townships 64 and 65, range 15, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Tenneco Oil Company and Sun Oil Company	\$ 164,756.00
Comprising 9,600 acres in townships 62 and 63, ranges 16 and 17, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Monsanto Oils Ltd., Monsanto Chemical Company and Uno-Tex Petroleum Corporation	130,592.00
Comprising 9,600 acres in townships 68 and 69, range 17, west of the 5th meridian and in township 68, range 18, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	The Calgary & Edmonton Corporation Limited and Canadian Kewanee Limited	60,346.11
Comprising 10,560 acres in townships 57, 58 and 59, range 20, west of the 5th meridian and in township 57, range 21, west of the 5th meridian—Leduc formation of the Woodbend group—sixteen quarter sections.	Canadian Fina Oil Limited, Pan American Petroleum Corporation and Hudson's Bay Oil and Gas Company Limited	150,859.00
Comprising 10,880 acres in townships 64 and 65, ranges 1 and 2, west of the 6th meridian—Woodbend group—sixteen quarter sections.	Richfield Oil Corporation and Sinclair Canada Oil Company	52,643.18
Comprising 12,480 acres in townships 63 and 64, range 4, west of the 6th meridian and in township 64, range 5, west of the 6th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	The British American Oil Company Limited	31,104.00
Comprising 7,520 acres in township 43, ranges 3 and 4, west of the 5th meridian and in township 44, range 4, west of the 5th meridian—Banff formation—eleven quarter sections.	Canadian Superior Oil Ltd.	35,465.00
Comprising 10,080 acres in townships 33 and 34, range 6, west of the 5th meridian and in townships 34 and 35, range 7, west of the 5th meridian—Elkton member of the Turner Valley formation—sixteen quarter sections.	Duncan, Miskew, Dechene, Bowen Craig & Brosseau	78,112.00
Comprising 7,040 acres in township 45, range 6, west of the 5th meridian—Cardium formation—ten quarter sections.	Imperial Oil Limited	101,155.75
Comprising 7,040 acres in townships 55, ranges 8 and 9, west of the 5th meridian—Nordegg formation of the Fernie Group—ten quarter sections.	National Trust Company, Limited	17,600.00
Comprising 6,080 acres in township 51, ranges 9 and 10, west of the 5th meridian—Mississippian—eleven quarter sections.	Supertest Petroleum Corporation Limited	27,780.60
Comprising 6,560 acres in townships 49, and 50, range 11, west of the 5th meridian and in township 50, range 12, west of the 5th meridian—Cardium formation—ten quarter sections.	Texaco Exploration Company	140,416.68
Comprising 11,360 acres in townships 64 and 65, range 23, west of the 5th meridian and in township 64, ranges 23 and 24, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	The Atlantic Refining Company	400,000.00
Comprising 10,880 acres in township 66, ranges 6 and 7, west of the 6th meridian—Pekisko formation—sixteen quarter sections.	Norcan Oils Ltd.	126,259.20
Comprising 6,400 acres in township 82, ranges 12 and 13, west of the 6th meridian—Toad-Grayling formations—nine quarter sections.	French Petroleum Company of Canada Ltd., The Calgary & Edmonton Corporation Limited, Westcoast Production Co. Ltd. and Pacific Petroleums Ltd.	72,226.80

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 10,400 acres in townships 11 and 12, range 3, west of the 5th meridian and in townships 10, 11 and 12, range 4, west of the 5th meridian—Palliser formation of the Devonian system—sixteen quarter sections.	The California Standard Company	\$ 26,011.27
Comprising 5,920 acres in township 40, ranges 4 and 5, west of the 5th meridian and in township 41, range 5, west of the 5th meridian—Cardium formation—ten quarter sections.	Great Plains Development Company of Canada, Ltd.	51,376.00
Comprising 7,040 acres in townships 53 and 54, ranges 9 and 10, west of the 5th meridian—Banff formation—ten quarter sections.	Murphy Oil Company Ltd.	22,208.00
Comprising 9,600 acres in townships 65 and 66, ranges 12 and 13, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of Canada Limited, Home Oil Company Limited and Alminex Limited	56,604.80
Comprising 4,480 acres in township 84, range 16, west of the 5th meridian—Mississippian—six quarter sections.	Shell Oil Company of Canada, Limited	38,261.61
Comprising 4,640 acres in township 84, ranges 18 and 19, west of the 5th meridian—Mississippian—six quarter sections.	Shell Oil Company of Canada, Limited	32,927.27
Comprising 7,040 acres in township 82, ranges 11 and 12, west of the 6th meridian—Permo-Pennsylvanian sediments—ten quarter sections.	Triad Oil Co. Ltd.	24,242.24
Comprising 8,320 acres in townships 63 and 64, range 8, west of the 5th meridian—Gilwood sand of the Elk Point group—twelve quarter sections.	Aztec Oil & Gas Company	22,670.00
Comprising 9,600 acres in townships 54 and 55, range 18, west of the 5th meridian and in township 55, range 19, west of the 5th meridian—Shunda formation of the Rundle group—fourteen quarter sections.	Consolidated Mic Mac Oils Ltd., Ashland Oil & Refining Company and Denison Mines Limited	556,888.00
Comprising 11,680 acres in townships 65 and 66, ranges 23 and 24, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	The Atlantic Refining Company	825,000.00
Comprising 11,200 acres in townships 61, 62 and 63, range 25, west of the 5th meridian and in township 61, range 26, west of the 5th meridian—Leduc formation of the Woodbend group—sixteen quarter sections.	Texaco Exploration Company	282,675.27
Comprising 8,320 acres in townships 39 and 40, range 5, west of the 5th meridian and in townships 39, 40 and 41, range 6, west of the 5th meridian—Mississippian—twelve quarter sections.	DeKalb Petroleum Corporation	101,170.00
Comprising 7,840 acres in township 76, ranges 11 and 12, west of the 5th meridian and in township 77, ranges 12 and 13, west of the 5th meridian—immediately above the Precambrian granite—eleven quarter sections.	Hudson's Bay Oil and Gas Company Limited	35,044.80
Comprising 10,880 acres in townships 56 and 57, ranges 13 and 14, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Socony Mobil Oil of Canada, Ltd., Scurry-Rainbow Oil Limited and Canada-Cities Service Petroleum Corporation	30,003.20
Comprising 11,040 acres in townships 52 and 53, ranges 15 and 16, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Canadian Superior Oil Ltd. and The Calgary & Edmonton Corporation Limited	276,334.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 7,040 acres in township 83, ranges 16 and 17, west of the 5th meridian—immediately above the Precambrian granite—ten quarter sections.	Shell Oil Company of Canada Limited	\$ 19,239.39
Comprising 9,760 acres in township 51, range 17, west of the 5th meridian and in townships 50 and 51, range 18, west of the 5th meridian—Shunda formation of the Rundle group—fourteen quarter sections.	Hamilton Brothers Canadian Gas Company Ltd., Pan American Petroleum Corporation, Triad Oil Co. Ltd. and Royalite Oil Company Limited	112,044.80
Comprising 7,680 acres in township 54, ranges 18 and 19, west of the 5th meridian—Cardium formation—eleven quarter sections.	Consolidated Mac Oils Ltd., Ashland Oil & Refining Company and Basin Oil Exploration Ltd.	80,017.00
Comprising 9,600 acres in townships 70 and 71, range 18, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	The California Standard Company and Imperial Oil Limited	2,078,251.18
Comprising 10,400 acres in township 63, range 22, west of the 5th meridian and in township 64, ranges 22 and 23, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	The California Standard Company	25,653.18
Comprising 7,520 acres in township 41, ranges 2 and 3, west of the 5th meridian, townships 42 and 43, range 3, west of the 5th meridian and in township 42, range 4, west of the 5th meridian—Banff formation—eleven quarter sections.	Imperial Oil Enterprises Ltd.	75,776.76
Comprising 10,880 acres in townships 38 and 39, ranges 8 and 9, west of the 5th meridian—Mississippian—sixteen quarter sections.	Western Decalta Petroleum Limited and Ashland Oil & Refining Company	27,030.00
Comprising 11,520 acres in townships 36 and 37, range 9, west of the 5th meridian and in townships 37 and 38, range 10, west of the 5th meridian—Leduc formation of the Woodbend group—sixteen quarter sections.	The California Standard Company	135,319.37
Comprising 7,040 acres in township 51, ranges 9 and 10, west of the 5th meridian—Mississippian—eleven quarter sections.	Pan American Petroleum Corporation	25,344.00
Comprising 9,600 acres in townships 68 and 69, range 11, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Home Oil Company Limited, Alminex Limited, United Oils, Limited and Regent Refining (Canada) Limited	47,510.40
Comprising 8,960 acres in townships 57 and 58, range 12, west of the 5th meridian and in townships 57, 58 and 59, range 13, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Texaco Canada Limited	150,000.00
Comprising 6,720 acres in township 86, ranges 13 and 14, west of the 5th meridian—immediately above the Precambrian granite—ten quarter sections.	Hudson's Bay Oil and Gas Company Limited	50,064.00
Comprising 9,600 acres in townships 51 and 52, range 15, west of the 5th meridian—Shunda formation of the Rundle group—fourteen quarter sections.	Hudson's Bay Oil and Gas Company Limited and Home Oil Company Limited	85,276.80
Comprising 7,680 acres in townships 62 and 63, range 15, west of the 5th meridian and in township 63, range 16, west of the 5th meridian—Banff formation—eleven quarter sections.	The Pure Oil Company	181,508.85
Comprising 9,600 acres in townships 71 and 72, ranges 18 and 19, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Central Del Rio Oils Limited	366,950.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 10,880 acres in townships 62 and 63, ranges 21 and 22, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Hamilton Brothers Canadian Gas Company Ltd.	107,852.80
Comprising 8,160 acres in township 77, ranges 22 and 23, west of the 5th meridian—immediately above the Precambrian granite—twelve quarter sections.	Canadian Homestead Oils Limited \$	26,750.00
Comprising 11,520 acres in townships 64 and 65, ranges 24 and 25, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Pan American Petroleum Corporation	46,080.00
Comprising 7,360 acres in townships 70 and 71, range 3, west of the 5th meridian and in township 71, range 4, west of the 5th meridian—immediately above the Precambrian granite—eleven quarter sections.	The California Standard Company	28,163.18
Comprising 6,880 acres in townships 50 and 51, range 6, west of the 5th meridian and in township 50, range 7, west of the 5th meridian—Mississippian—ten quarter sections.	Pan American Petroleum Corporation	50,980.80
Comprising 10,880 acres in township 55, ranges 12 and 13, west of the 5th meridian and in township 56, ranges 13 and 14, west of the 5th meridian—Elk Point group—sixteen quarter sections.	Socony Mobil Oil of Canada, Ltd. and Canada-Cities Service Petroleum Corporation	415,000.00
Comprising 10,720 acres in township 60, ranges 12 and 13, west of the 5th meridian and in township 61, range 12, west of the 5th meridian—Cambrian sediments—sixteen quarter sections.	Canada-Cities Service Petroleum Corporation	28,441.60
Comprising 10,880 acres in townships 64 and 65, ranges 15 and 16, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Tenneco Corporation and Sun Oil Company	332,800.00
Comprising 10,080 acres in township 53, ranges 16 and 17, west of the 5th meridian—Banff formation—fourteen quarter sections.	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	347,632.32
Comprising 10,400 acres in townships 66 and 67, ranges 16 and 17, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Sun Oil Company	116,480.00
Comprising 9,600 acres in township 67, range 19, west of the 5th meridian and in townships 66 and 67, range 20, west of the 5th meridian—Gilwood sand of the Elk Point group—fourteen quarter sections.	Pan American Petroleum Corporation	125,000.00
Comprising 10,880 acres in township 60, ranges 20 and 21, west of the 5th meridian and in township 61, range 21, west of the 5th meridian—Gilwood sand of the Elk Point group—sixteen quarter sections.	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited, Pan American Petroleum Corporation and Socony Mobil Oil of Canada, Ltd.	103,000.00
		<u>\$ 10,906,506.99</u>

CROWN RESERVE NATURAL GAS LICENCES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Comprising 8,160 acres in township 50, range 1, west of the 5th meridian and in township 51, ranges 2 and 3, west of the 5th meridian.	Samedan Oil of Canada Inc., and Herkules Oil Co. Ltd.	\$ 10,001.00
Comprising 23,040 acres in townships 53 and 54, ranges 17 and 18, west of the 5th meridian and in townships 52, 53, and 54, range 19, west of the 5th meridian.	Hudson's Bay Oil and Gas Com- pany Limited	1,257,000.00
Comprising 17,600 acres in townships 82 and 83, ranges 7 and 8, west of the 6th meridian.	Supertest Petroleum Corporation Limited	7,216.00
Comprising 14,240 acres in township 57, range 4, west of the 5th meridian and in township 58, ranges 4 and 5, west of the 5th meridian.	Dome Petroleum Limited and Provo Gas Producers Limited	14,952.00
Comprising 22,880 acres in townships 41 and 42, ranges 14 and 15, west of the 5th meridian, township 43, range 15, west of the 5th meridian, townships 42 and 43, range 16, west of the 5th meridian and in township 43, range 17, west of the 5th meridian.	The British American Oil Com- pany Limited, Sun Oil Company, Socony Mobil Oil of Canada, Ltd. and Triad Oil Co. Ltd.	151,264.00
Comprising 23,040 acres in townships 51 and 52, ranges 17 and 18, west of the 5th meridian and in township 52, range 19, west of the 5th meridian.	Pan American Petroleum Cor- poration, Hamilton Brothers Cana- dian Gas Company Ltd., Triad Oil Co. Ltd. and Royalite Oil Company, Limited	1,049,472.00
Comprising 23,040 acres in townships 79 and 80, ranges 7, 8 and 9, west of the 6th meridian.	Consolidated Mic Mac Oils Ltd., Western Decalta Petroleum Limited, Consolidated East Crest Oil Company Limited, The Petrol Oil & Gas Company, Limited (N.P.L.), Camerina Petroleum Corporation, Oil and Gas Futures Inc. and North Central Oil Cor- poration	68,163.25
Comprising 23,040 acres in townships 80 and 81, ranges 9, 10 and 11, west of the 6th meridian.	Western Decalta Petroleum Limit- ed, Consolidated East Crest Oil Company Limited, The Petrol Oil & Gas Company Limited (N.- P.L.), Camerina Petroleum Cor- poration, Oil and Gas Futures Inc. and North Central Oil Corporation	7,676.76
		\$ 2,565,745.01

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act Section 280)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 21 acres in the east half of section 4, township 25, range 20, west of the 4th meridian.	Canadian Pacific Oil and Gas	\$ 100.00
		\$ 100.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 112)

Description	Offer Accepted From:	Cash Purchase Price
The south east quarter of section 12, township 25, range 1, west of the 5th meridian.	Banff Oil Ltd.	\$ 903.00
		\$ 903.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 148, Subsection (2) Clause (b))

Description	Offer Accepted From:	Cash Purchase Price
The west half of section 18, township 40, range 2, west of the 5th meridian.	Canadian Superior Oil Ltd., Cana- dian Seaboard Oil Company, Pacific Petroleum Ltd. and Pan American Petroleum Corpo- ration	\$ 45,450.00
Comprising 126.20 acres in the west half of section 19, township 39, range 1, west of the 5th meridian.	Western Decalta Petroleum Limited	10,845.00
		\$ 56,295.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 148, Subsection (2) Clause (c))

Description	Offer Accepted From:	Cash Purchase Price
Comprising 1,289.11 acres in the east half of section 14 and the south half of section 28, township 30, range 1, west of the 5th meridian, the east half of section 2 and the north half of section 22 in township 31, range 1, west of the 5th meridian and that portion of the east half of section 5 in township 33, range 1, west of the 5th meridian.	Olds Holding Ltd.	\$ 26,324.00
		\$ 26,324.00

CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Comprising 21.80 acres in section 15, township 42, range 20, west of the 4th meridian.	The British American Oil Company Limited	\$ 500.00
Comprising 155.35 acres in section 23, township 57, range 24, west of the 4th meridian.	Imperial Oil Limited	2,330.00
Comprising 17.02 acres in section 31, township 41, range 19, west of the 4th meridian.	The British American Oil Company Limited	425.00
Comprising 160 acres in section 22, township 48, range 3, west of the 5th meridian.	Supertest Petroleum Corporation, Limited	8,451.00
Comprising 80 acres in section 12, township 25, range 6, west of the 5th meridian.	Shell Oil Company of Canada, Limited	2,400.00
Comprising 86.96 acres in section 15, township 35, range 25, west of the 4th meridian.	Zapata Canadian Petroleum Corporation	869.60
Comprising 160 acres in section 13, township 43, range 8, west of the 5th meridian.	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Edwin Foster Blair	1,700.00
Comprising 6.91 acres in section 15, township 39, range 3, west of the 5th meridian.	Sun Oil Company	905.00
Comprising 25.10 acres in section 19, township 39, range 1, west of the 5th meridian.	Western Decalta Petroleum Limited	2,259.00
Comprising 67.80 acres in section 17, township 39, range 1, west of the 5th meridian.	Dome Petroleum Limited and Provo Gas Producers Limited	6,102.00
Comprising 160 acres in section 10, township 36, range 5, west of the 5th meridian.	Altana Exploration Company	8,360.00
Comprising 160 acres in section 2, township 36, range 5, west of the 5th meridian.	Altana Exploration Company	8,360.00
Comprising 160 acres in section 14, township 43, range 8, west of the 5th meridian.	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Edwin Foster Blair	2,970.00
Comprising 7.04 acres in section 3, township 39, range 3, west of the 5th meridian.	Canadian Homestead Oils Limited	1,793.00
		\$ 47,424.60

CROWN RESERVE PETROLEUM LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 155)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 320 acres in township 61, range 12, west of the 5th meridian.	Socony Mobil Oil of Canada, Ltd.	\$ 10,000.00
Comprising 4,960 acres in township 61, ranges 11 and 12, west of the 5th meridian.	Socony Mobil Oil of Canada, Ltd.	38,750.00
		\$ 48,750.00

Reservations—During the fiscal year 251 reservations were issued covering an area of 13,174,580 acres and at the close of the year 335 reservations were active containing an area of 15,300,908 acres.

The revenue from reservation fees amounted to \$63,250.00, for extending reservations amounted to \$2,289,589.34 and the revenue from bonuses accepted by the Director of Minerals at sales of petroleum and natural gas reservations by tender amounted to \$3,054,716.52.

Credit of not in excess of fifty per cent of the approved expenditures incurred in geophysical examination including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservations and during the fiscal year under review rentals of \$2,985,598.44 were satisfied from such expenditures.

Crown Reserve Drilling Reservations—During the fiscal year 72 drilling reservations were issued covering an area of 641,720 acres and at the close of the year 107 were active containing an area of 980,796 acres.

The revenue from drilling reservation fees amounted to \$18,000.00, from rentals \$521,600.44 and the revenue from accepted offers at sales of Crown reserve drilling reservations amounted to \$10,906,506.99.

Credit may be granted for expenditures incurred in drilling a well on a drilling reservation and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the reservation of \$146,005.00 were satisfied by credit.

Natural Gas Licences—During the fiscal year 22 natural gas licences covering an area of 402,695 acres were issued and at the close of the year eight licences were active containing an area of 270,835 acres. The revenue from fees was \$6,250.00 and from rentals was \$47,578.40. Credit may be granted for expenditures incurred in drilling a well on a natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$64,358.69 were satisfied by credit.

Crown Reserve Natural Gas Licences—During the fiscal year eight Crown reserve natural gas licences covering an area of 155,040 acres were issued. At the close of the year ten licences were active, containing an area of 225,920 acres. The revenue from fees was \$2,000.00, from rentals \$28,718.00 and the revenue from accepted offers at sales of Crown reserve natural gas licences amounted to \$2,565,745.01. Credit may be granted for expenditures incurred in drilling a well on a Crown reserve gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$11,583.20 were satisfied by credit.

Natural Gas Leases—During the fiscal year 106 natural gas leases were issued covering 769,851 acres, and at the close of

the fiscal year a total of 850 leases were in existence comprising an area of 3,800,440 acres. One hundred and two of the leases were granted out of natural gas licences or Crown reserve natural gas licences and permit the recovery of natural gas from one or more zones specified in the lease. Two leases were issued comprising the balance of the spacing unit to permit natural gas wells that were capable of commercial production to be operated at full production allowables and two leases were issued within the unitized areas.

The annual rental of a natural gas lease is thirty-three and one-third cents an acre. While an adequate market or a market in which the lessee may participate is not available, the annual rental is reduced to ten cents an acre. The revenue received from fees was \$970.00 and from lease rentals \$740,924.75.

COAL

In the fiscal year, thirteen leases were issued containing 4,931 acres, being made up of new and renewal and second renewal leases. There are now 389 active leases comprising 129,307 acres. There were seven road allowance coal mining leases issued and there are now 96 active. The revenue received from fees was \$110.00 and from lease rentals \$45,666.57.

Crown royalties collected during the fiscal year were \$112,598.42 and the following tonnage of coal, subject to royalty was mined.

Coal Leases	1,119,007
Coal Lands and Mineral Sales	64,309
TOTAL	1,183,316

QUARRYING

During the fiscal year eighteen quarrying leases comprising a total of 2,762 acres were issued, two for shale, one for volcanic ash, two for sandstone, five for limestone, two for rock phosphate, three for sandstone and shale and three for bentonite.

Extraction of 607,464 tons of limestone and shale, 28,168 cubic yards of clay, 16,524 tons of bentonite, 12,398 tons of sandstone and two tons of building stone and 88 tons of dolomitic siltstone from Crown leases was reported and at the close of the fiscal year 100 quarrying leases containing an area of 17,819 acres were active.

BITUMINOUS SANDS

During the fiscal year three bituminous sands leases, comprising a total of 119,729 acres were issued, and at the close of the year 79 leases were active containing an area of 2,516,126 acres. Three bituminous sands prospecting permits were issued during the year. There were three permits active at the close of the year. Bituminous Sands Royalty Regulation No. 1 established by O.C. 11/63 dated January 10, 1963 applies to the operations of Great Canadian Oil Sands Limited in Bituminous Sands Lease No. 4.

OIL SANDS

At the close of the year nineteen leases containing an area of 685,842 acres and three prospecting permits were active.

QUARTZ

During the fiscal year 367 claims were recorded and nineteen continued for a further year. The claim in the Drumheller district for the recovery of bentonite was one of those continued.

PLACER

During the fiscal year one claim was renewed for another year. There were 132 ounces of gold and twelve ounces of silver recovered at two gravel plants.

SODIUM CHLORIDE (Common Salt)

During the fiscal year the plant near Lindbergh operated and reported extraction of 48,373 tons, an increase of 3,330 tons over the previous year.

SULPHUR

The total production of sulphur in Alberta in 1962 was 972,351 tons, an increase of 538,351 tons over that reported the previous year.

IRON

During the fiscal year two iron leases comprising 13,936 acres were issued and at the close of the year, four leases were active containing an area of 14,378 acres. Five iron prospecting permits were issued comprising 98,853 acres.

ROADWAY SALES

During the fiscal year three notifications were issued pursuant to section 24 of The Mines and Minerals Act, 1962. Section 24 provides a means whereby minerals in roadways may be returned to the adjacent owner.

WELL LICENCES

During the fiscal year there were 1,625 licences issued for wells to be drilled for the purpose of obtaining oil or gas, 31 licences were issued for the purpose of drilling test holes, five licences were issued for wells to be drilled for the purpose of injecting gas, air, water or other substance to an underground formation and 65 licences were issued for wells to be drilled for the purpose of obtaining water for injection and for domestic wells at depths in excess of 500 feet.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are administered by the Oil and Gas Con-

servation Board, 603-6th Avenue South West, Calgary, Alberta, and particulars as to the drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

GEOPHYSICAL AND GEOLOGICAL EXPLORATION

During the fiscal year 113 licences and ten permits were issued, and 55 permits were renewed.

UNIT OPERATION OF MINERALS

During the fiscal year one agreement pursuant to Part IX of The Mines and Minerals Act and 22 agreements pursuant to Part VIII of The Mines and Minerals Act, 1962 were entered into for unit operation of petroleum and natural gas properties. These agreements were:

Berrymoor Cardium Unit in townships 49 and 50, ranges 5 and 6, west of the 5th meridian.

Wainwright Unit No. 4 in sections 34 and 35, township 45, range 6, west of the 4th meridian.

West Jumping Pound Unit Agreement in townships 24 and 25, ranges 5 and 6, west of the 5th meridian.

Willesden Green Cardium Unit No. 1 in townships 42 and 43, ranges 6 and 7, west of the 5th meridian.

Harmattan East Unit No. 1 in townships 31, 32 and 33, ranges 3 and 4, west of the 5th meridian.

Wainwright Unit No. 2 in township 45, range 6, west of the 4th meridian.

Olds Unit Agreement in townships 30, 31, and 32, range 1, west of the 5th meridian.

Pembina Cardium Unit No. 11 in townships 49 and 50, ranges 10 and 11, west of the 5th meridian.

Wainwright Unit No. 6 in township 45, range 6 west of the 4th meridian.

South Swan Hills Unit in townships 65 and 66, ranges 10 and 11, west of the 5th meridian.

Lindale Cardium Unit in township 49, range 5, west of the 5th meridian.

Willesden Green Cardium Unit No. 2 in townships 42 and 43, range 6, west of the 5th meridian.

Judy Creek Beaverhill Lake Unit in townships 63 and 64, ranges 10 and 11, west of the 5th meridian.

Gilby Viking Unit No. 1 in townships 40 and 41, ranges 2 and 3, west of the 5th meridian.

Wainwright Unit No. 5 in township 45, range 6, west of the 4th meridian.

Kessler Viking Gas Unit in townships 38, 39 and 40, ranges 7, 8, 9 and 10, west of the 4th meridian.

Swan Hills Unit No. 1 in townships 66, 67 and 68, ranges 9, 10 and 11, west of the 5th meridian.

Westward Ho Unit No. 1 in townships 32 and 33, range 4, west of the 5th meridian.

Joarcam Viking Unit No. 1 in townships 47 and 48, ranges 20 and 21, west of the 4th meridian.

Deer Mountain Unit No. 1 in townships 68 and 69, ranges 8 and 9, west of the 5th meridian.

Joffre Viking Unit No. 2 in townships 37 and 38, ranges 24 and 25, west of the 4th meridian.

Hughenden Basal Quartz North No. 1 in township 40, range 7, west of the 4th meridian.

Gilby Rundle Unit No. 1 in townships 39 and 40, ranges 2 and 3, west of the 5th meridian.

Turner Valley Unit No. 7 was established during the fiscal year pursuant to The Turner Valley Unit Operations Act.

One Unit involving Crown lands was established pursuant to section 73 of The Oil and Gas Conservation Act. This section deals with the compulsory pooling of tracts within a spacing unit. This Unit pertains to gas in the Viking formation in the Fort Saskatchewan field.

Where a person is required by or has the approval of the Oil and Gas Conservation Board to proceed with a scheme to inject any substance into an underground formation, he is permitted by section 186 of The Mines and Minerals Act, 1962 to proceed with the scheme without obtaining an agreement.

There were 40 schemes in which Crown mineral rights were involved. Seventeen schemes authorized the return of salt water produced with petroleum to subsurface formations in the Simone, Acheson, Leduc Woodbend, Fenn West, Glenevis, Choice, Harmattan Elkton, Gilwood, Malmo, Pembina, Ewing Lake, Lloydminster, Gilby and Fairydell-Bon Accord fields. Seventeen schemes permitted the injection of water for pressure maintenance purposes. Nine were into the Cardium formation of the Pembina field, three into the Wainwright formation of the Wainwright field, one into the Viking formation of the Hamilton Lake field, one into the Viking formation of the Joffre field, one into the Viking formation of the Gilby field, one into the Viking formation of the Joarcam field and one into the Beaverhill Lake formation of the Judy Creek field. One scheme authorized the disposal of fluid wastes into subsurface formations in the Lloydminster field. Two schemes authorized the disposal of refinery waste fluids in the Lloydminster and Empress fields. Three schemes authorized pilot tests of water injection into pools in the Garrington, Virginia Hills and Westward Ho fields.

STAFF

At the close of the fiscal year the Division staff numbered 60 employees and did excellent work during the year.

MINERAL TAX DIVISION

Report of the Superintendent

J. A. SAVAGE

Producing area tax revenue for the fiscal year ending March 31st, 1963 amounted to \$1,210,475.19 being an increase of \$218,695.69 over the previous year's revenue of \$991,779.50. The tax rate for the 1962 assessment remained at eight mills.

Mineral tax based on acreage for the fiscal year was received in the amount of \$530,170.30 which was an increase of \$252,177.50 over the \$277,992.80 received in the preceding year. The rate of tax remained at three cents an acre.

All Ministerial Orders designating producing areas pursuant to section 7 of The Mineral Taxation Act were redesignated by the Minister pursuant to section 7 and filed under The Regulations Act as Producing Area Orders.

Nine new fields were added to the designated producing areas for the year 1962. They are Chauvin which is a petroleum field, Calgary, Cessford, Clive-North, Homeglen-Rimbey and Namao which are petroleum and natural gas fields and Sarcee, Three Hills Creek and Westeros-South which are natural gas fields. The areas were assessed as unitized areas and the assessments were made in accordance with the tract factors listed in the Royalty Unitization Agreements.

All designated producing areas are listed below showing the number of parcels assessed, minerals assessed and the assessed value.

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	29	Petroleum and Natural Gas	\$ 4,576,065.46
Alexander	12	Natural Gas	481,967.61
Bentley	20	Petroleum	1,726,472.87
Bindloss	3	Natural Gas	17,812.06
Bonnie Glen	20	Petroleum and Natural Gas	10,094,261.03
Calgary	183	Petroleum and Natural Gas	243,236.03
Campbell	11	Petroleum and Natural Gas	126,934.23
Carstairs-Elkton	20	Natural Gas	1,662,922.09
Cessford	16	Petroleum and Natural Gas	365,565.57
Chauvin	4	Petroleum	114,140.82
Clive-North	16	Petroleum and Natural Gas	104,716.78
Harmattan-Elkton	43	Petroleum	3,641,749.81
Homeglen-Rimbey	51	Petroleum and Natural Gas	1,871,568.99
Innisfail	23	Petroleum and Natural Gas	6,238,128.67
Joarcam	70	Petroleum	5,971,538.63
Joffre	49	Petroleum	7,359,915.05
Jumping Pound	62	Natural Gas	1,245,999.60
Leduc	278	Petroleum and Natural Gas	24,783,216.16
Medicine Hat-Redcliff	111	Natural Gas	332,693.59
Medicine Hat-Roseglen	10	Natural Gas	34,327.95
Namao	7	Petroleum and Natural Gas	88,990.39
Nevis	87	Natural Gas	858,415.47
Okotoks	62	Natural Gas	862,902.98
Oyen	1	Natural Gas	7,348.94
Pincher Creek	27	Natural Gas	2,231,507.51

Provost	127	Natural Gas	405,548.96
Redwater	16	Petroleum and	
		Natural Gas	7,712,758.15
Sarcee	1	Natural Gas	34,663.32
Stettler	12	Petroleum and	
		Natural Gas	2,208,969.86
Three Hills Creek	45	Natural Gas	78,446.30
Turner Valley	58	Petroleum and	
		Natural Gas	3,496,533.45
Viking-Kinsella	443	Natural Gas	591,292.48
Westerose	5	Petroleum	3,589,202.45
Westerose-South	16	Natural Gas	1,711,491.60
Wizard Lake	6	Petroleum and	
		Natural Gas	7,310,154.84

In addition to the designated producing areas, there were 950 parcels assessed. These had a total assessed value of \$49,698,991.54, with the principal minerals assessed being petroleum, natural gas, coal and salt.

Under the heading of parcels assessed are the number of items appearing on the assessment roll with each parcel relating to the area contained in a certificate of title. In determining the assessed value of a parcel, each spacing unit on which a well has been brought into production is calculated separately; consequently, several calculations may be made in arriving at the assessment for petroleum in a parcel containing minerals in a section of land.

The revenue derived from the taxation of minerals from the enactment of the statute in 1941 until March 31st, 1949 collected by the Department of Lands and Mines was \$1,921,180.47 and revenue collected by the Department of Mines and Minerals from April 1st, 1949 is shown in the following tabulation:

Year	Mill Rate	Producing	Per Acre	Acreage Tax	Fees	Total
1949-50	8	\$ 452,838.16	1½c	\$297,883.10	\$ 286.50	\$ 751,007.76
1950-51	8	526,029.61	1½c	307,062.62	511.00	833,603.23
1951-52	8	444,293.91	1½c	323,185.71	2,320.10	769,799.72
1952-53	8	572,671.45	1½c	310,285.08	3,204.00	886,160.53
1953-54	8	717,352.55	1½c	283,853.18	1,055.50	1,002,261.23
1954-55	8	1,081,913.72	1½c	277,842.74	1,467.00	1,311,223.46
1955-56	8	1,081,802.40	1½c	264,496.50	914.50	1,297,213.40
1956-57	8	1,070,380.73	1½c	272,883.90	1,101.50	1,344,366.13
1957-58	8	1,232,795.31	1½c	282,057.60	1,056.50	1,515,909.41
1958-59	8	1,115,478.85	1½c	306,179.40	472.00	1,422,130.25
1959-60	8	909,799.94	1½c	337,452.83	545.50	1,247,798.27
1960-61	8	957,673.20	1½c	303,051.45	339.00	1,261,063.65
1961-62	8	991,779.50	*3c	277,992.80	545.50	1,270,317.80
1962-63	8	1,210,475.19	3c	530,170.30	446.50	1,741,091.99

* Change in rate effective January 1st, 1962.

There were 893 mineral tax certificates issued during the fiscal year with revenue derived therefrom being \$446.50. A tax certificate shows the amount of current taxes and arrears payable with respect to the mineral or minerals contained in a certificate of title and anyone may obtain a certificate for a fee of fifty cents.

Pursuant to The Mineral Titles Redemption Act, after the mineral titles were acquired by the Crown, there were instances where the minerals were granted under lease, licence, reservation, permit or other agreement, for exploration and development. The statute provides that where the minerals have been granted by the Crown, the return of the title to the former owner must be delayed until the minerals are no longer under

lease, licence, reservation, permit or other agreement. In these instances, the former owner is entitled to receive the moneys collected by the Crown less a deduction of an amount equal to the tax that would have been charged had title been returned.

During the fiscal year the amount of moneys collected on existing agreements and returned to former owners was \$32,318.08. This brings the total to \$340,127.35 that has been returned to former owners since the Act came into force.

There were 18 agreements terminated during the year which resulted in titles being returned to former owners, making a total of 1,143 titles returned since the inception of the Act. As at March 31st, 1963, there were 67 titles, the redemption of which will be delayed because they are subject to lease, licence, reservation, permit or other agreement.

PIPE LINE DIVISION

Report of the Superintendent

A. L. BERRY

The fiscal year ending March 31st, 1963 showed a considerable increase over the past year in total miles of pipe line licenced. This is due to a great extent to the licencing of The Alberta Gas Trunk Line Company Limited Foothills System and the completion of granting Licences for pipe lines constructed before the coming into force of The Pipe Line Act, 1958.

Secondary recovery schemes to establish controlled pressure maintenance within certain fields accounted for continuing construction of small diameter pipe lines. Winter work in clearing and grading of right-of-ways was carried out by Imperial Oil Limited and Northwestern Utilities Limited, in preparation for the construction of pipe lines transmitting liquid petroleum gas and dry gas from the Judy Creek plant to the Edmonton area. Completion of these lines and others now being planned will contribute to increased pipe line construction next year.

Sour Gas Systems were given a great deal of attention by this Division. Particular emphasis was placed on corrosion inspection and control methods and emergency procedures since the hazardous nature of the substance being transmitted presents concern as to public safety. Annual inspections of all systems are now in progress.

The Pipe Line Division Staff was increased by five, giving a total of seventeen employees. Three Pipe Line Inspectors are located in Calgary, the remainder of the Staff is located in Edmonton.

The following table shows the mileage and licence statistics related to the various classifications of pipe lines for the year ending March 31st, 1963.

SUMMARY OF PIPE LINE LICENCES

	Licensed at March 31, 1962		Licensed During The Year		Cancelled During The Year		Licensed at March 31, 1963	
	Number of Licences	Mileage of Pipe Line	Number of Licences	Mileage of Pipe Line	Number Cancelled	Mileage Cancelled	Number of Licences	Mileage of Pipe Line
Oil Lines	58	1130.10	26	627.73	1	17.33	83	1740.50
Gas Lines	248	3606.75	119	766.32	1	16.20	366	4356.87
Secondary Lines for Oil	1281	1528.87	118	243.73	9	16.53	1390	1756.07
Secondary Lines for Gas	442	2151.52	148	642.77	1	49.52	589	2744.77
Secondary Lines for Water and Other Substances ..	243	549.85	103	330.59	0	3.17	346	877.27
Distribution Lines	429	353.41	170	151.11	2	35.10	597	469.42
Private Lines ..	338	49.03	22	5.55	25	9.60	335	44.98
TOTAL	3039	9369.53	706	2767.80	39	147.45	3706	11989.88

TECHNICAL DIVISION

Report of the Superintendent of the Technical Division

J. M. NOVAK

The following report summarizes the operations of the Technical Division for the fiscal year ending March 31, 1963.

DRAUGHTING, LAND DESCRIPTIONS AND GENERAL

The series of maps covering approximately forty-eight townships for each area and on a scale of three-quarters of an inch to the mile were drawn covering the following areas:

BURNT RIVER—Townships 69 to 76, Ranges 9 to 14, West of the 6th Meridian.

NORMANDVILLE—Townships 77 to 84, Ranges 21 to 26, West of the 5th Meridian.

SADDLE HILLS—Townships 69 to 76, Ranges 3 to 8, West of the 6th Meridian.

STURGEON LAKE EAST—Townships 69 to 76, Ranges 12 to 17, West of the 5th Meridian.

STURGEON LAKE WEST—Townships 69 to 76, Ranges 24 to 27, West of the 5th Meridian and Ranges 1 and 2, West of the 6th Meridian.

WHITELAW—Townships 77 to 84, Ranges 1 to 6, West of the 6th Meridian.

The map of the Sturgeon Lake area was redrawn to cover the Snipe Lake area and now extends from Townships 69 to 76, Ranges 18 to 23, West of the 5th Meridian.

All new maps drawn and previously drawn are subject to showing the locations of wells as well licences are granted. When the status of a well changes, it is adjusted on the maps. The limits of fields as established by the Oil and Gas Conservation Board are also included on the maps.

A map of the Province showing the location of oil and gas field maps published to March 31, 1963, is included in this report.

A total of 3,726 maps were distributed by the Department which is an increase of 894 from the 2,832 maps distributed in the previous year. A list of maps is available indicating the price of each map.

During the year, 1,681 applications for licences to drill wells were recommended for issue by the Oil and Gas Conservation Board, which is approximately the number of applications dealt with in the previous year. The Division, upon receipt of each application, searches the ownership of Crown minerals in the spacing unit allotted to the well.

Land descriptions were prepared for all mineral dispositions, as well as descriptions for recommendations to council.

The map of Alberta showing the areas covered by all petroleum and natural gas reservations to March 31, 1962, has been revised to indicate the area of reservations issued during the present year and is included in this report.

The photostat print requirements of the Department, as in past years, continued to be supplied by the Technical Division, Department of Lands and Forests. This Division supplies the ozalid print requirements of the Department.

The plan attached to each of the 367 applications for quartz claims was examined and, when satisfactory, plotted in the departmental township record.

RECORDS

In addition to the work completed as shown in the tables hereunder, the Records Branch of the Division supplied 1,908 township plots to the public indicating available Crown minerals and status of Crown minerals compared to 1,608 plots distributed in the previous year.

*DISPOSITIONS, CANCELLATIONS AND TRANSFERS RECORDED IN THE TOWNSHIP REGISTERS

	1961-62	1962-63
Coal Leases	89	43
Coal Road Allowance Leases	35	41
Petroleum and Natural Gas Leases	7,638	6,908
Petroleum and Natural Gas Reservations	678	615
Crown Reserve Drilling Reservations	221	172
Petroleum and Natural Gas Permits .....	.....	110
Natural Gas Licences	68	51
Natural Gas Leases	222	124
Crown Reserve Natural Gas Licences	53	30
Quarrying Leases	30	34
Transfers	1,187	1,451
Bituminous Sands Prospecting Permits	13	7
Bituminous Sands Leases	26	5
Quartz Claims	72	428
Placer Claims	2	1
Iron Prospecting Permits	2	9
Iron Leases .....	.....	2
Mineral Sales	2	3
Petroleum Leases .....	.....	2
Sodium Sulphate Permits	1	.....
Sodium Sulphate Leases	2	.....
Tin Prospecting Permits	1	1
Oil Sands Leases	19	.....
Oil Sands Prospecting Permits	3	.....
Miscellaneous Lease .....	.....	1
TOTALS	10,364	10,038

*Includes issued, reinstated, divided, renewed and certificates of work.

NUMBER OF AGREEMENTS TRANSFERRED

	1961-62	1962-63
Petroleum and Natural Gas Lease	5,139	5,835
Petroleum and Natural Gas Reservation	111	113
Petroleum and Natural Gas Permit .....	.....	6
Coal Lease	17	17
Coal Road Allowance Lease	3	3
Quarrying Lease	7	4
Natural Gas Lease	82	100
Natural Gas Licence	4	3
Crown Reserve Natural Gas Licence	5	3
Bituminous Sands Lease	6	10
Crown Reserve Drilling Reservation	31	28
Geophysical Licence	1	9
Geophysical Permit	1	3
Oil Sands Lease .....	.....	2
Tin Prospecting Permit	1	.....
Iron Prospecting Permit .....	.....	2
TOTALS	5,408	6,138

Type of Document	NUMBER OF DOCUMENTS FILED	
	1961-62	1962-63
Lis Pendens	—	1
Mechanic's Lien	13	10
Discharge of Mechanic's Lien	30	29
Bank Securities	108	165
Discharge of Bank Securities	113	62
TOTALS	264	267

	NUMBER OF PIPE LINE LICENCES AND PERMITS TRANSFERRED				
	1958-59	1959-60	1960-61	1961-62	1962-63
Permits	1	58	1	11	8
Licences	—	39	31	38	123
Provisional Licences	—	8	—	3	4
TOTALS	1	105	32	52	135

	NUMBER OF PIPE LINE LICENCES AND PERMITS HYPOTHECATED			
	1959-60	1960-61	1961-62	1962-63
Permits	57	51	117	2
Licences	73	49	82	23
Provisional Licences	19	16	35	1
TOTALS	149	116	234	26

Pipe Line Permits and Licences continued to be recorded and included in the township records of the Division.

Pipe Line Permits and Licences continued to be recorded and included in the township records of the Division.

Five transfers were issued during the fiscal year, three for the return of minerals underlying roadways to owners of adjacent minerals and two to complete exchanges of minerals.

During the fourteen years of operation of the Department, one hundred and thirty-two notifications and thirty transfers have been issued.



MAP OF
ALBERTA
SHOWING LOCATION OF
**OIL AND GAS FIELD
AREA MAPS**

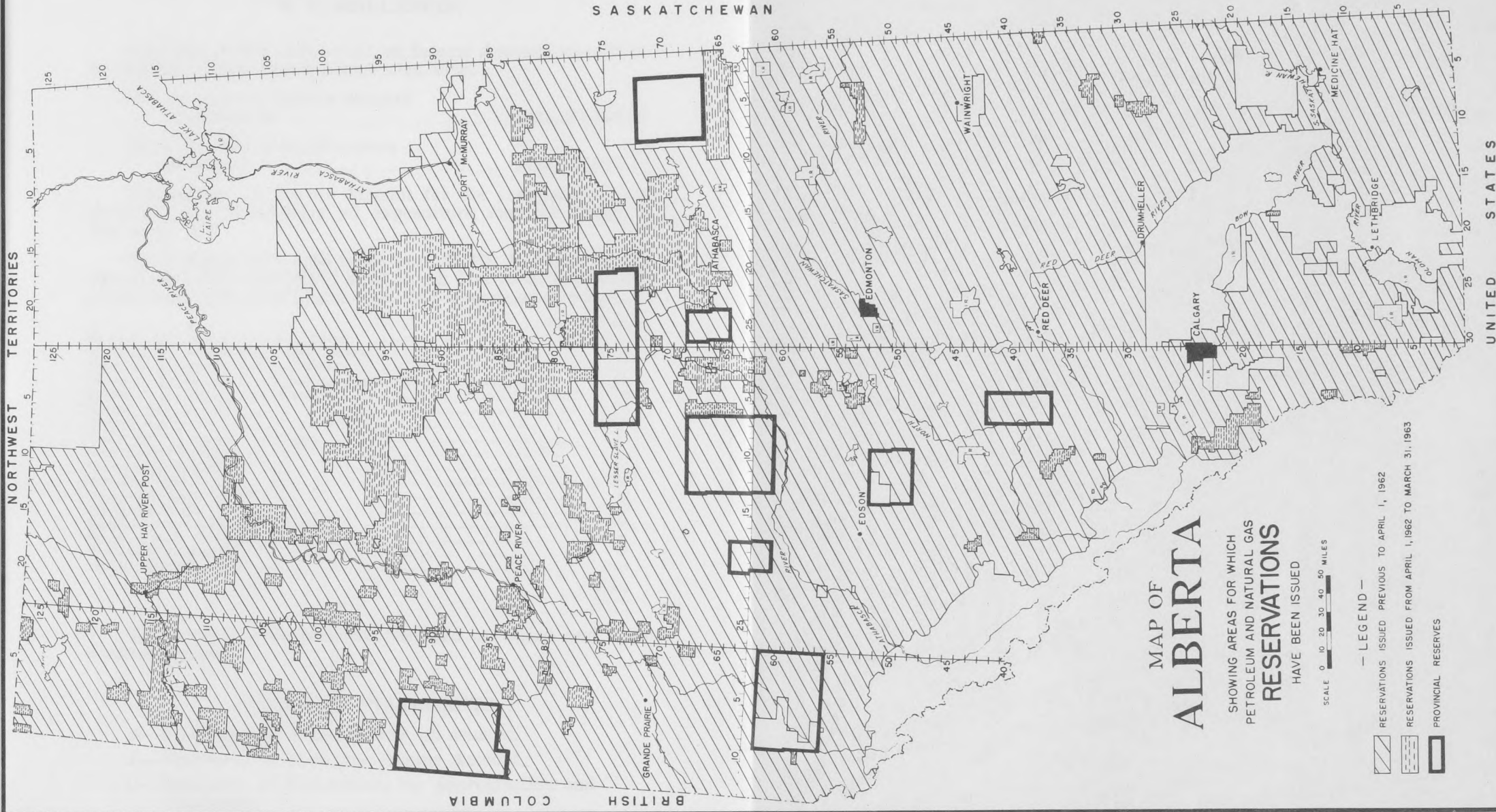
SCALE IN MILES
16 8 0 16 32 48 64

PUBLISHED TO MARCH 31, 1963

STANDARD SIZE MAP

AREA MAPS

AREA COVERED BY TOWNSHIP SIZE MAPS



MAP OF ALBERTA

SHOWING AREAS FOR WHICH
PETROLEUM AND NATURAL GAS
RESERVATIONS
HAVE BEEN ISSUED

SCALE 0 10 20 30 40 50 MILES

- LEGEND —
- RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1962
 - RESERVATIONS ISSUED FROM APRIL 1, 1962 TO MARCH 31, 1963
 - PROVINCIAL RESERVES

ACCOUNTING DIVISION

Report of the Administrative Accountant and Personnel Officer

W. E. SHILLABEER

A surplus of \$121,382,340.21 on Income Account was shown for the Fiscal Year ending March 31st, 1963.

Net Revenue on Income Account
amounted to \$123,651,805.43.

Gross Receipts from all sources
amounted to \$128,426,916.17.

Expenditure on Income Account for the year amounted to \$1,917,277.62. Particulars of expenditure may be found in Statement "C."

As at March 31st, 1963 there were 37,926 Accounts Receivable as compared with 38,951 as at March 31st 1962. The number of active accounts as at March 31st, 1963 is made up as follows:

	No. of Accounts
Petroleum and Natural Gas Leases, Rental	29,814
Petroleum and Natural Gas Leases, Royalty	1,825
Petroleum and Natural Gas Reservations	553
Petroleum and Natural Gas Drilling Reservations	107
Petroleum and Natural Gas Permits	88
Natural Gas Licences	9
Natural Gas Leases	852
Crown Reserve Natural Gas Licences	11
Coal Leases, Rental	474
Coal Leases, Royalty	86
Quarrying Royalty	100
Bituminous Sands Rental	82
Oil Sands Rental	22
Registration of Assignment Tax	189
Mining Leases (Miscellaneous)	41
Compensatory Royalty	77
Mineral Tax (Producing Area)	3,596
	<u>37,926</u>

There were 5,491 accounts cancelled or closed and 4,466 accounts opened.

INDEX TO STATEMENTS

- A—Statement of Receipts from all sources.
- B—Statement of Receipts—Income Account.
- C—Statement of Expenditure by Appropriation and Character.
- D—Statement of Net Receipts by Division.
- E—Statement of Receipts and Expenditure.
- F—Statement of Revenue by Fiscal Years received by the Province for the period April 1st, 1949 to March 31st, 1963.

Statement "A"

STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1st, 1962 to March 31st, 1963.

	Gross Receipts	Refunds	Net Receipts
Income Account (See Statement "B")	\$123,538,352.44	\$ 238,734.61	\$123,299,617.83
Transferred Collections	5,198.85	.....	5,198.85
Suspense (Unapplied receipts carried forward subject to refund.)	4,883,364.88	\$4,536,376.13	346,988.75
	<u>\$128,426,916.17</u>	<u>\$4,775,110.74</u>	<u>\$123,651,805.43</u>

Statement "B"

STATEMENT OF RECEIPTS—INCOME ACCOUNT

From April 1st, 1962 to March 31st, 1963.

COAL MINING

	Gross Receipts	Refunds	Net Receipts
Coal Fees, Rentals, etc.	\$ 46,509.57	\$ 733.00	\$ 45,776.57
Coal Royalty	112,598.42	.....	112,598.42
Coal Sundry Revenue	2,371.85	.....	2,371.85

PETROLEUM AND NATURAL GAS

Petroleum & Natural Gas Fees, Rental, etc.	38,882,901.39	198,424.81	38,684,476.58
Petroleum & Natural Gas Royalty	51,068,267.12	29,954.13	51,038,312.99
Crown Reserve Sales	30,498,553.68	.....	30,498,553.68

MISCELLANEOUS

Quarrying Fees, Rental & Royalty	68,211.41	.....	68,211.41
Bituminous Sands Fees, Rental & Bonus	654,687.23	2.52	654,684.76
Oil Sands Fees & Rental	184,531.04	.....	184,531.04
Miscellaneous Mining	138,741.64	9,052.56	129,689.08
Well Licences	42,650.00	.....	42,650.00
MINERAL TAX	1,741,454.58	362.59	1,741,091.99
PIPE LINE SUNDRY REVENUE	11,038.50	10.00	11,028.50
ADMINISTRATION SUNDRY REVENUE	85,835.96	195.00	85,640.96

TOTAL INCOME ACCOUNT

(Carried to Statement "A")	<u>123,538,352.44</u>	<u>\$238,734.61</u>	<u>\$123,299,617.83</u>
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ACCOUNTING DIVISION

43

EXPENDITURE CLASSIFIED BY APPROPRIATION AND CHARACTER
FOR THE FISCAL YEAR ENDED MARCH 31, 1963
INCOME ACCOUNT

Statement "C"

SERVICE	2001 Minister's Office	2002 General Administration	2004 Pipe Lines Division	2005 Geological Division	2006 Mines Division	2007 Minerals Division	2008 Mineral Tax Division	2009 Oil and Gas Conservation Board	2010 Technical Division	2011 Abandonment of Mining Properties	2012 Redemption of Mineral Titles	2013 Gas Resources Preservation Act	2014 Right of Entry Arbitration Board	2015 Supervisory and Safety Training Program	2016 Geophysical Division	TOTAL
Advertising	—	—	—	—	—	12,519.82	—	—	—	—	—	—	—	—	—	12,519.82
Automobiles	—	—	3,715.35	—	1,007.17	—	—	—	—	—	—	—	1,789.31	—	—	6,511.83
Automobile Expenses	—	332.16	—	—	—	—	—	—	—	—	—	—	—	—	—	32.16
Contracts & Agreements	—	—	—	33,904.00	—	—	—	—	—	28,882.38	—	—	—	—	—	62,786.38
Fees & Commissions	—	212.00	50.00	—	248.00	55.00	—	—	—	—	—	120.80	20.00	—	—	705.80
Freight & Express	—	1,706.07	—	—	—	—	—	—	—	—	—	—	1.25	—	—	1,707.32
Furnishings & Equipment	—	535.40	731.70	—	—	2,085.78	673.48	—	707.00	—	—	—	106.77	—	—	4,840.13
Grants & Prizes	—	—	—	—	—	—	—	—	—	—	—	—	—	3,600.00	—	3,600.00
Insurance	—	—	32.40	—	—	—	—	—	—	—	—	—	—	—	—	32.40
Materials & Supplies-Administration	276.00	13,457.45	1,857.73	—	1,091.07	3,607.47	1,052.14	—	17,380.81	—	—	—	1,345.38	—	189.46	40,257.51
Materials & Supplies— Construction	—	—	161.08	—	—	—	—	—	9.10	—	—	—	—	—	—	170.18
Miscellaneous Expenses	—	300.00	.95	—	—	—	—	675,000.00	—	—	—	—	—	—	—	675,300.95
Postage	100.00	1,450.00	420.00	—	500.00	7,695.80	2,000.00	—	291.00	—	—	—	437.89	—	216.00	13,110.69
Refunds & Remissions	—	—	—	—	—	—	—	—	—	—	32,318.08	—	—	—	—	32,318.08
Repairs & Replacements— Equipment	—	1.85	—	—	—	—	—	—	—	—	—	—	—	—	—	1.85
Repairs & Replacements— Office Machines	20.31	2,236.74	179.76	—	174.48	1,022.18	391.15	—	869.46	—	—	—	145.52	—	20.75	5,060.35
Salaries	4,514.12	139,102.91	70,502.94	3,726.68	61,816.99	237,019.01	86,560.51	—	199,229.39	—	—	—	64,573.68	—	30,926.66	897,972.89
Taxes	—	—	—	—	—	—	—	98,230.87	—	—	—	—	—	—	—	98,230.87
Telephone & Telegraph	418.19	1,412.20	2,945.95	—	245.75	3,464.60	28.85	—	1,178.55	—	—	—	485.05	—	931.45	11,110.59
Transportation	—	75.00	—	—	—	—	—	—	—	—	—	—	—	—	—	75.00
Travelling Expenses—Other Than Public Servants	—	357.80	—	—	279.06	—	—	—	—	—	—	128.95	—	—	—	765.81
Travelling Expenses— Public Servants	483.68	1,493.33	12,909.87	—	6,498.31	3,719.13	2,080.82	—	621.73	—	—	—	6,553.77	—	15,506.37	49,867.01
TOTAL: Income Account	5,812.30	162,672.91	93,507.73	37,630.68	71,860.83	271,188.79	92,786.95	773,230.87	220,287.04	28,882.38	32,318.08	249.75	75,458.62	3,600.00	47,790.69	1,917,277.62

Statement "D"

STATEMENT OF NET RECEIPTS BY DIVISIONS

For the Fiscal Year Ending March 31st, 1963.

INCOME ACCOUNT:

Minerals Division	\$121,459,484.53
Mineral Tax Division	1,741,091.99
Mines Division	2,371.85
Pipe Line Division	11,028.50
Miscellaneous (Administration Sundry Revenue, Sale of Salvage, etc.)	85,640.96
TRANSFERRED TO OTHER DEPARTMENTS	5,198.85
SUSPENSE (Unapplied receipts carried forward, subject to refund.)	346,988.75
	<u>\$123,651,805.43</u>

Statement "E"

STATEMENT OF RECEIPTS AND EXPENDITURE

For the Fiscal Year Ending March 31st, 1963.

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditure from Appro- priations	Surplus on Income Account
\$128,426,916.17	\$4,775,110.74	\$123,651,805.43	\$123,299,617.83	\$1,917,277.62	\$121,382,340.21

ACCOUNTING DIVISION

47

STATEMENT OF REVENUE BY FISCAL YEARS
RECEIVED BY THE PROVINCE FOR THE PERIOD
APRIL 1st, 1949 TO MARCH 31st, 1963.

Statement "F"

	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	Total
COAL															
Fees and Rental	\$ 191,725.77	\$ 181,001.18	\$ 215,343.94	\$ 176,175.24	\$ 148,753.11	\$ 52,033.34	\$ 51,930.09	\$ 68,286.97	\$ 76,810.09	\$ 60,650.61	\$ 59,705.73	\$ 48,840.26	\$ 67,998.95	\$ 45,776.57	\$ 1,445,031.85
Royalty	651,568.47	623,311.67	437,410.85	379,492.51	286,569.25	230,906.86	216,839.64	165,134.62	109,223.27	99,675.81	90,303.44	72,821.12	80,485.14	112,598.42	3,556,341.07
Sundry Revenue	6,183.50	5,335.30	5,209.45	4,526.05	3,902.20	3,067.90	2,816.20	2,792.85	3,040.30	2,504.50	2,451.75	2,534.85	2,457.50	2,371.85	49,194.20
PETROLEUM AND NATURAL GAS															
Fees and Rental	6,255,177.54	9,779,641.29	15,380,549.80	19,682,344.81	24,597,993.50	20,654,727.19	21,370,260.30	25,819,815.31	31,044,071.22	29,833,947.04	32,681,663.73	30,898,834.06	32,403,667.57	38,684,476.58	339,087,169.94
Royalty	3,611,118.33	5,189,992.65	11,038,089.37	13,510,951.66	18,565,126.36	20,214,579.11	28,794,874.01	37,292,514.31	32,812,134.59	25,446,505.77	27,327,144.03	27,741,035.63	39,198,163.40	51,038,312.99	341,780,542.21
Crown Reserve Sales	23,231,448.20	29,080,632.39	13,211,288.97	23,527,443.66	53,236,117.06	40,013,319.80	76,074,732.50	69,050,860.49	58,641,836.13	53,609,952.46	81,322,977.17	44,127,513.03	44,290,641.86	30,498,553.68	639,917,317.40
SALT															
Fees and Rental	564.00	3,129.00	1,005.60	1,005.60	1,005.60	1,005.60	1,005.60	1,010.60	1,010.60	1,005.60	1,005.60	1,005.60	1,005.60	1,005.60	15,770.20
Royalty	2,024.92	9,230.96	4,895.32	6,806.71	7,063.37	7,978.06	9,868.92	10,050.54	9,859.84	10,130.02	10,677.35	11,725.31	12,367.82	13,753.64	126,432.78
QUARRYING															
Fees and Rental	1,019.31	1,176.72	291.28	227.23	325.01	190.52	173.30	213.25	117.75	115.00	165.00	140.00	155.00	140.34	4,449.71
Royalty	29,939.08	39,710.30	28,405.86	29,309.75	38,798.23	41,512.12	39,976.57	53,995.93	45,920.70	50,730.87	59,273.99	57,095.90	56,409.75	68,071.07	639,150.17
QUARTZ															
Fees and Royalty	377.56	630.00	853.47	3,826.17	15,770.92	3,283.19	1,944.82	1,180.35	1,040.00	4,079.76	680.00	810.00	880.00	4,335.00	39,691.24
PLACER															
Fees and Royalty	—	325.08	42.79	30.00	30.00	1,510.00	1,117.50	1,346.15	500.00	690.00	490.00	250.00	10.00	450.00	6,791.52
BITUMINOUS SANDS															
Fees, Rental and Royalty	15,195.28	7,738.20	7,738.20	53,373.00	63,926.60	43,166.96	199,181.40	91,436.70	487,666.17	366,693.53	548,903.05	672,044.79	767,431.39	654,684.76	3,979,180.03
OIL SANDS															
Fees and Rental	—	—	—	—	—	—	—	—	—	—	—	—	178,840.84	184,531.04	363,371.88
MINING MISCELLANEOUS															
Fees, Rental and Royalty	218,265.08	127,458.20	302,970.10	224,680.12	191,956.44	105,294.64	185,892.72	107,556.67	204,749.45	135,049.34	135,714.23	128,541.68	138,376.48	152,794.84	2,359,299.99
MINERAL TAXATION ACT															
Non-Producing Area Tax	297,883.10	307,062.62	323,185.71	310,285.08	283,853.18	277,842.74	264,496.50	272,883.90	282,057.60	306,179.40	337,452.83	303,051.45	277,992.80	530,170.30	4,374,397.21
Producing Area Tax	452,838.16	526,029.61	444,293.91	572,671.45	717,352.55	1,031,922.72	1,031,802.40	1,070,380.73	1,232,795.31	1,115,478.85	909,799.94	957,673.20	991,779.50	1,210,475.19	12,265,293.52
Certificate Fees	286.50	511.00	2,320.10	3,204.00	1,055.50	1,467.00	914.50	1,101.50	1,056.50	472.00	545.50	339.00	545.50	446.50	14,265.10
PIPE LINE ACT															
SUNDRY REVENUE	—	—	—	—	—	—	—	—	—	—	6,297.50	10,110.50	10,219.00	11,028.50	37,655.50
ADMINISTRATION															
SUNDRY REVENUE	21,915.60	34,734.13	61,946.42	83,735.45	90,413.82	69,268.78	51,489.41	75,902.99	67,642.46	66,789.46	51,367.90	55,667.62	78,745.13	85,640.96	895,260.13
TOTAL	\$34,987,530.40	\$45,917,650.30	\$41,465,841.14	\$58,570,088.49	\$98,250,012.75	\$82,753,076.53	\$128,299,316.38	\$134,086,463.86	\$125,021,531.98	\$111,110,650.02	\$143,546,618.74	\$105,090,034.00	\$118,558,173.23	\$123,299,617.83	\$1,350,956,605.65

PERSONNEL

The number of employees in the Department showed an increase of seven from 206 on April 1st, 1962 to 213 as of March 31st, 1963.

Because of an increase in the volume of work involved in the pipe line industry, it was necessary to increase the staff of the Pipe Line Division by four, two of these being Pipe Line Inspectors, one Pipe Line Assistant Superintendent, and one addition to the office staff, a Clerk Stenographer. Also, because of an increase in the volume and complexity of the work involved in the unitization of oil and gas fields and the computation of royalty returns, one additional Royalty Computer position was added to the Minerals Division.

A Pipe Lines Draughtsman was added to the staff of the Technical Division to prepare a series of maps showing the oil and gas pipe line companies operating in the Province.

On November 1st, 1962, because of a change of Ministers, the Secretary of the new Minister was added to the staff of the Department of Mines and Minerals.

During the same period thirty-five employees left the Department. Of these, five left the city, five resigned to accept employment outside the Government service, three decided to further their education by returning to university, five were transferred to other departments and the remainder left for various other reasons.

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